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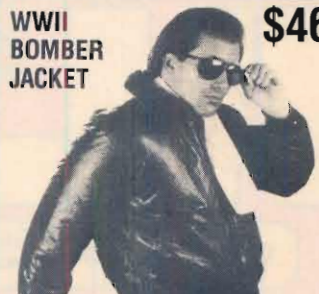
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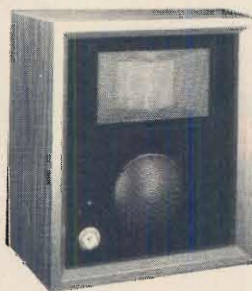
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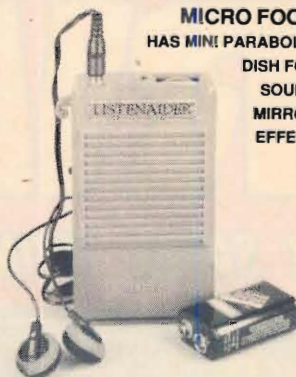
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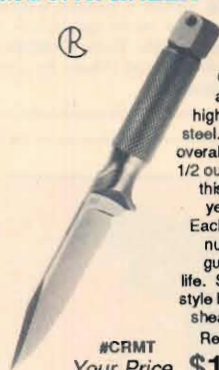
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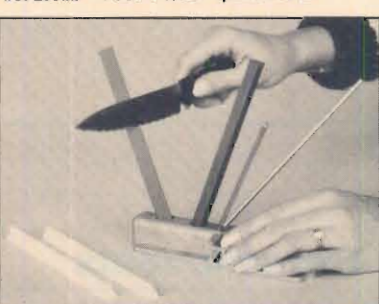
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DECEMBER 1988 VOLUME 10 NUMBER 12

GUIDE

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Students of the U.S. Training Center's Ranger Course practice recon operations near Prado Dam, California. See page 26 (Photo by Jim Benson).

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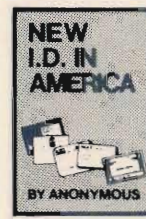


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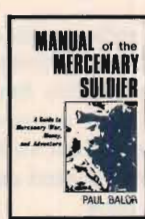
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TO THE POINT

New Jersey's bill to ban handguns. . .

AT this writing, there is a bill in the New Jersey legislature that would ban all new sales of handguns to private citizens.

Under provisions of this bill, sponsored by New Jersey Senate President John Russo, state residents who already own handguns would be allowed to keep them but could not sell them or pass them on to their heirs.

Officials of the National Rifle Association have declared that New Jersey already has "the most restrictive firearms laws in the nation." The NRA is so concerned about alleged abuses of the state's gun laws directed against gun owners there that it has opened a state lobbying office in the state capital of Trenton, its first in the nation.

Reports of harsh and abusive treatment of gun owners by New Jersey law enforcement personnel have been troubling NRA officials for some time. The NRA has been investigating these reports and now through its lobbying office it will be seeking legislation to correct state laws deemed unfair to law abiding firearms owners. No doubt the NRA will be watching the handgun ban bill closely.

At a state legislative subcommittee hearing last year there was testimony that law abiding citizens have been arrested and jailed and their weapons confiscated for highly technical violations of New Jersey's complicated and "ambiguous" firearms laws.

In the late 1970s, New Jersey adopted a new criminal code, under which it was a serious crime for a person to use force against an intruder in the victim's home unless that intruder directly threatened the life of the victim or victims.

What this meant was that if you were in your home and heard someone break in and then you discovered them leaving with, say, your new color television set and you hollered for them to stop and they just kept going and you then used a gun to stop them you would be charged with assaulting the perpetrator(s).

Another example of the state's restrictive laws related to guns was cited

by an NRA official in New Jersey. He mentioned a state Supreme Court decision on what constitutes an illegal transfer of a firearm. If a licensed firearm owner goes with his adult fiancée to a gun range and hands her the weapon so she can shoot it that constitutes a felony.

State law enforcement officials say New Jersey's strict firearms laws have kept the violent crime rate there below the national average. I would have to question the validity of that assertion. During the eight years that I lived in New Jersey I was aware of a great deal of violent crime which was reported regularly in the press. I find it hard to believe New Jersey has that much less violent crime than the national average. The City of Newark, for example, has had among the highest murder rates in the nation.

The outcome of the New Jersey bill to ban new sales of handguns could be crucial for all of us who own, use and or believe in the right of citizens to own firearms. The battle against the powerful forces of the anti-gun movement in this country is a never ending one.

What amounts to a virtual banning of a whole class of firearms throughout an entire state is a very dangerous legal precedent that could have extremely serious consequences for all gun owners across the nation, since anti-gun forces in other states would surely be encouraged by the New Jersey law.

Banning handguns, I have no doubt, is only the first step in the anti-gun movement's efforts to totally ban all privately owned firearms nationwide.

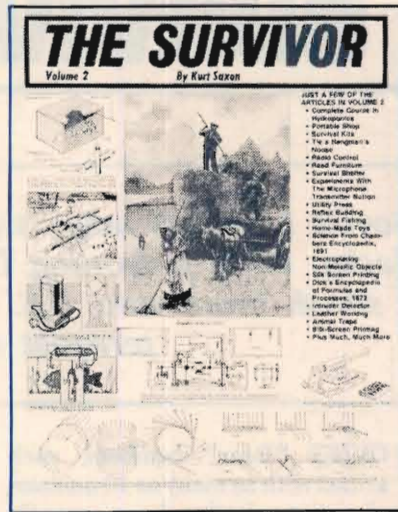
To quote Michael Beard, executive director of the National Coalition to Ban Handguns, the situation in New Jersey is especially important because Senator Russo's bill is "the most far-reaching" gun control measure under serious consideration anywhere in the nation.

If you haven't joined the NRA yet, I strongly urge you to do so, and to get out and vote and make your views on firearms known. Act now before it's too late. --Jim Benson.



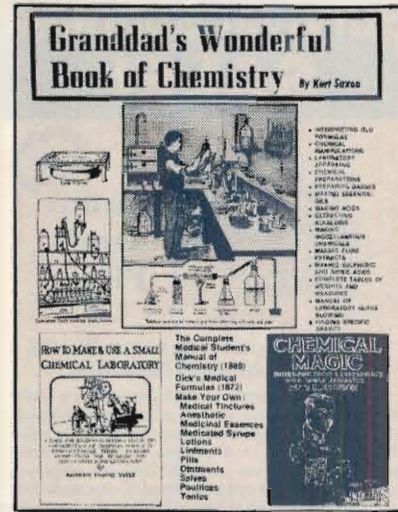
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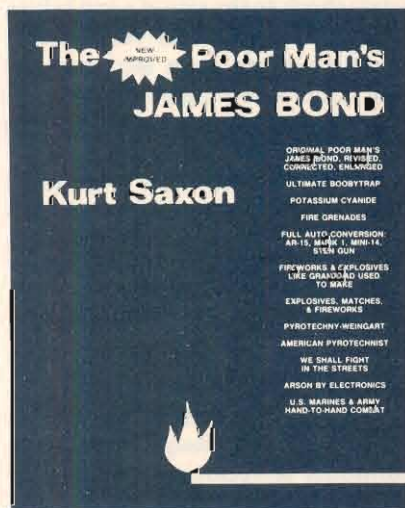
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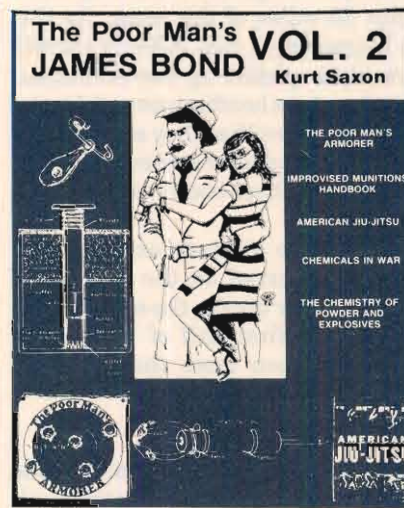
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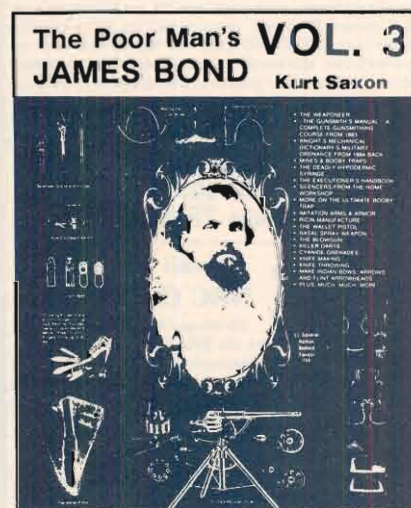
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Soviet bombers stage simulated bomb runs near Alaska, child poisoning first aid, snakebite electric shock treatment, U.S. cites worldwide rise in terrorist attacks...

SOVIET "Bear" bombers, each armed with as many as 10 nuclear-tipped cruise missiles, have recently begun to stage simulated bombing runs off the coast of Alaska.

A number of incidents, some in which the bombers came to within 50 miles of Alaska's southwest coast, have been reported by the U.S. Alaskan Air Command.

In one incident, two Soviet bombers at high altitude were tracked and intercepted by U.S. fighters when they came within 50 miles of the coast. As this was happening a U.S. AWACS surveillance plane picked up two additional Soviet bombers heading toward Alaska but flying so low that they avoided U.S. ground based radar. Fighters were also sent to escort these bombers away from the coast.

According to military experts, such incidents occurred on the average of 10 times a year during the early 1980s. Through the first half of 1988 alone there have been more than 20 such incidents.

Poison Precaution — Poisoning is the third leading cause of accidental death in children in the U.S. each year. According to the National Institute of Child Health and Human Development (NICHD) in Bethesda, Maryland, most parents do not have on hand a simple non-prescription drug which might save the life of their child in case of an accidental poisoning. The drug is known as syrup of ipecac, and is used to induce vomiting in someone who has swallowed a non-corrosive poison.

Frequently a poison control center will advise a parent to induce vomiting in the poisoned child while awaiting the arrival of an ambulance. Syrup of ipecac will act very quickly, (usually 10 to 15 minutes) to induce vomiting. According to Dr. Michael Malloy of the

NICHD, having the drug on hand "could be potentially lifesaving." Parents are also strongly advised to keep the number of the nearest poison control center readily available.

Snakebite Survival — Medical researchers in the U.S. and Britain are trying to figure out how and why a unique type of South American folk remedy against snakebite works.

The treatment involves the application of a low amperage-high voltage electric shock to the site of a snakebite. This type of current is very similar to that produced by a stun gun. In South American jungles the shock is often delivered using a spark plug wire from an automobile or motorcycle.

In 34 documented cases of patients suffering venomous snakebites a series of four or five electric shocks were delivered to the wound sites. None of the patients received standard antivenin therapy. All of the patients recovered and were able to walk home within an hour of receiving the shock therapy. In all of the patients pain from the snakebites disappeared within 15 minutes of receiving the electric shocks. In follow up interviews none of the patients showed any signs of tissue damage from either the snakebites or the shocks. Research is continuing and the U.S. military has expressed interest in the new therapy.

Terrorism Still Threatens — Despite the temporary lull in terrorists attacks involving Americans, figures released by the State Department show a 7 percent worldwide rise in the number of incidents last year (1987).

According to the State Department, there were some 832 international terrorist attacks last year. Most of them were bombings. Iranian sponsored attacks rose from 13 in 1986 to 44 in 1987, while Libyan sponsored attacks dropped from 19 in 1986 to 7 in 1987. ●

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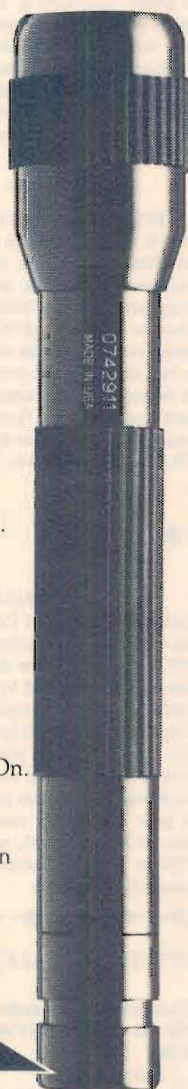
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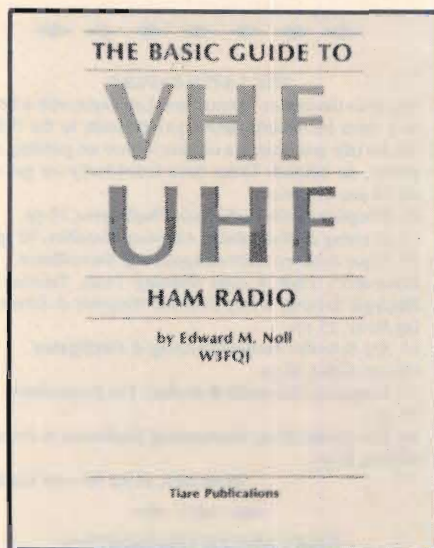
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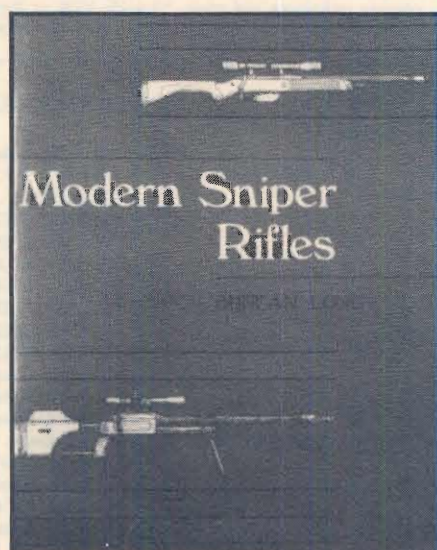
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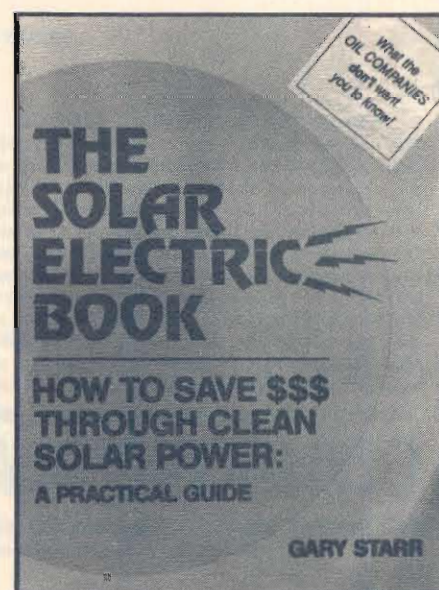
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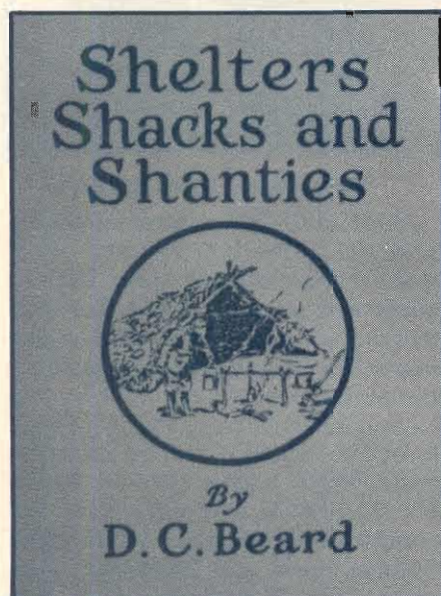
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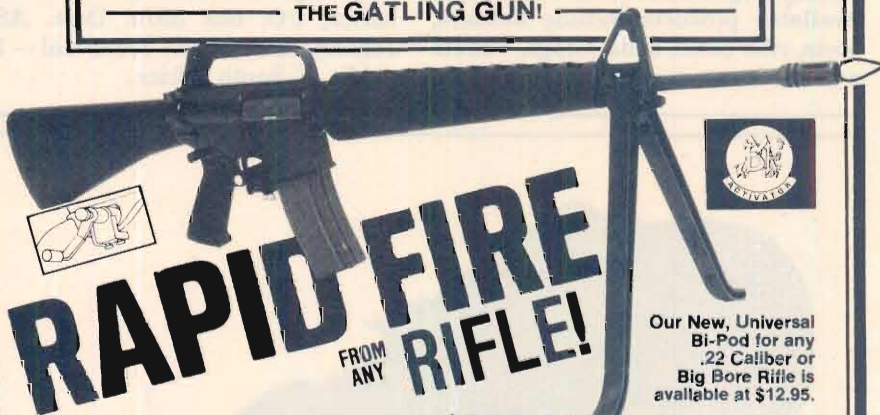
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Central and Southern Africa is the largest stronghold of big game. Elephant, buffalo, lion and the like are well protected and not endangered and "Out of Africa" relies on the various culling programs for its raw materials. Available products include holsters, boots, rifle cases, belts, slings, wallets and brief cases made of either buffalo,

elephant, ostrich, or antelope hide. Interested customers are invited to write regarding any product in this field, and even if they don't stock it, they will endeavor to have it made to your requirements. Write to: Out of Africa, P.O. Box 3979, Dept. ASG, Johannesburg, 2000. Transvaal — Republic of South Africa.



Emergency Fuel Saver

NITRO-PAK'S Gas Saver allows you to store fuel for three to five years. It stops the formation of gums and lacquers and prevents stored fuel from reacting with the metal storage container. Gas Saver has been successfully tested and used by the military and oil companies for years. One ounce will treat 100 gallons of fuel for up to five years. Eight ounces sells for \$10.50 plus \$2.75 S&H. One pint sells for \$16 plus \$3.25 S&H. Contact: NITRO-PAK Storage Foods and Emergency Supplies, 11018 E. Rosecrans, Suite 300, Dept. ASG, Norwalk, CA 90650; (213) 929-4705.

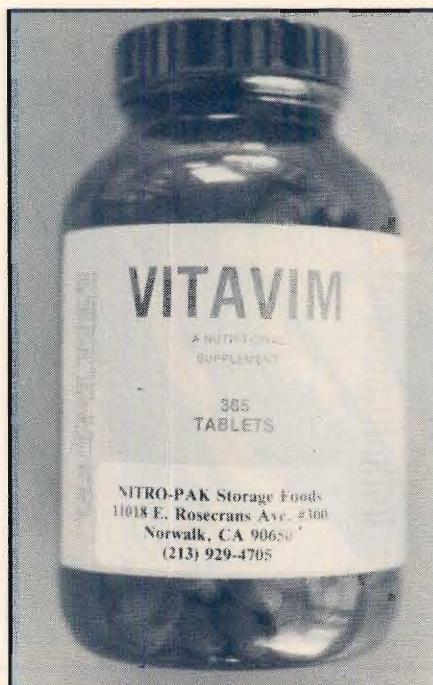


Bigfoot Extreme Cold Weather Sleep System

Advanced engineering and high performance Gore-Tex fabrics and Celanese Polarguard insulation make the Bigfoot one of the most advanced 4-season hunting and camping sleep systems available. Warmth and comfort are assured—even when damp, in rain or freezing cold. Rated to minus 60 degrees Fahrenheit when used with the Army's Extreme Cold Weather Clothing System Components (ECWCS). Compresses to 10 inches by 20 inches. Total weight is 10 pounds, six ounces. Retail price is \$385. Contact: Brigade Quartermasters, Ltd., 1025 Cobb International Blvd., Dept. ASG, Kennesaw, GA 30144; (404) 428-1248.

Vita-Vim Long Storage Vitamins

Vita-Vim tablets are intended to fill two basic needs: (1) For people who are eating regular canned foods or survival type diets which may be deficient in essential vitamins or minerals. (2) As a nutritional supplement to a regular diet as added assurance of adequate vitamin and mineral intake. When produced, Vita-Vim tablets contain 30 percent more than the amount of each vitamin shown on the label. Stored at or below normal room temperature these tablets should provide the full guaranteed amount of all vitamins listed after 30 years storage and 85 percent of label potency after 50 years storage. Price for 365 tablets is \$19.95 plus \$3 S&H. Contact: NITRO-PAK Storage Foods, 11018 E. Rosecrans, Suite 300, Dept. ASG, Norwalk, CA 90650; (213) 929-4705.



Troy-Bilt Tuffy Garden Tiller

The Troy-Bilt Tuffy is a small, economical 3 HP tiller specifically designed for the small garden. It features a Tecumseh-Lauson engine with cast aluminum block, 9.05" cubic displacement, cast-iron, gear driven transmission with standard Troy-bilt bronze worm gear, 10-inch diameter bolo-type tines and 14-inch tilling width. The Tuffy weighs 125 pounds and with its self-propelled rear tine tillage design a small garden can be cultivated to a depth of six inches in no time. Introductory price is \$469. Contact: Troy Bilt, 102nd Street, 9th Avenue, Dept. ASG, Troy, NY 12180; (518) 235-6010.



Communicator

T-Berry Electronics Corporation introduces the Communicator, an easy to use, handheld, crystal-controlled, two-way radio. The Communicator produces up to five watts on its six available channels, giving it a range of at least several miles. In VHF or UHF, the Communicator is housed in a rigid, heavy-duty die-cast metal chassis ensuring reliable performance year after year. It weighs only 20 ounces and comes complete with 9.6 volt 500 mA/hour NiCad battery pack, wall-mount battery charger, flexible antenna, and operator's manual. To learn more about the Communicator contact: T-Berry Electronics Corp., 15 Technology Dr., Dept. ASG, Noblesville, Indiana 46060; (800) 648-8683.

The CLUB — Anti Auto Theft Device

The Club is a low-cost car theft prevention device that locks onto any steering wheel to make the vehicle undriveable. Because it is highly visible, it deters thieves before they break in. Tempered steel construction defies cutting. Includes a high quality double tumbler lock. For auto, price is \$59.95 plus \$4 S&H. For trucks, send \$69.95 plus \$4 S&H. Contact: Winner International, 32 West State Street, Dept. ASG, Sharon, PA 16146; (800) 527-3345 or (412) 981-1152.

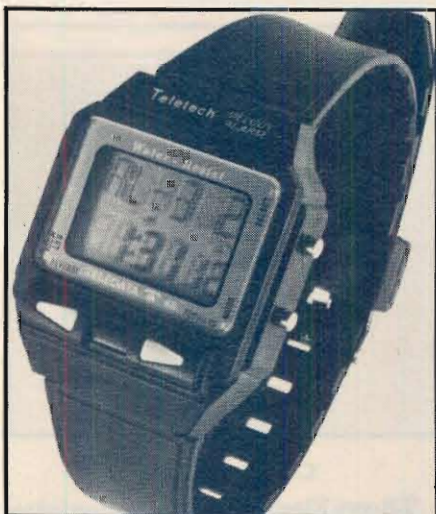


NEW PRODUCTS



Gator Hunter Cutlery Set

The Cattle Baron Leather & Cutlery Co. introduces the Gator Hunter Cutlery Set designed for the international sportsman and hunter. The bowie knife has an 8½-inch blade with long swedge and needle point and is ground from ¼-inch 440C stock. It features full tang with handle material made of British Columbian stag horn. The push dagger has a four inch razor sharp double edge blade also of 440C. All sheaths along with hatband, shell-pouch, wristband and belts are made of genuine alligator over a thick cowhide inner construction and are hand-made by the Cattle Baron's master leather craftsmen. Send \$3 for catalog. For more information contact: Cattle Baron Leather & Cutlery Co., P.O. Box 100724, Dept. ASG, San Antonio, TX 78201; (512) 697-8900.



Telememo Melody Watch

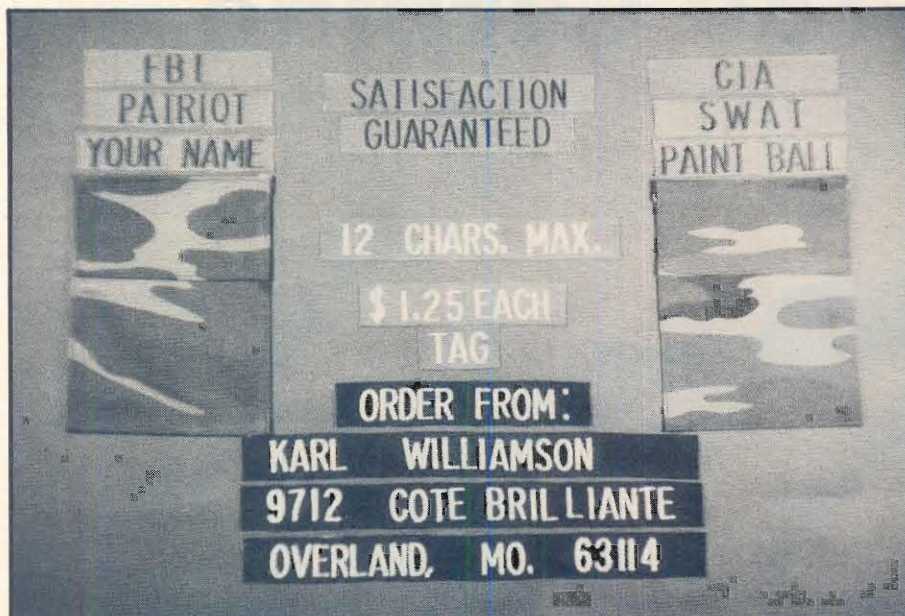
A new high tech digital wrist watch, available from Techtronics Computer Services, serves as a traveling personal secretary for busy individuals. This new time piece stores up to 45 twelve-digit phone numbers and also acts as an appointment calendar, alarm, and schedule/meeting reminder. Three month/day alarms help keep track of birthdays, anniversaries, and the like. Available in black, white, red, light or dark blue. Retail price is only \$29.95. Order from: Telememo, Techtronics Computer Services, Bldg. B, Suite 125, 301 N. Harrison St., Princeton, NJ 08540; (800) 327-6826 ext. 875.



The Deluxe Storage/Travel Case

Diabetics can enjoy a new kind of freedom at home, on the job, and while traveling with the Deluxe Storage/Travel Case by RoCo Designs. The new case features two roomy pockets, three elastic loops and two adjustable straps for holding a blood glucose monitor, lancing device, and enough syringes and supplies for several days. Measuring just 7½" x 5⅞" x 2¾" when closed, this padded, compact sturdy case fits easily into a briefcase or suitcase. The

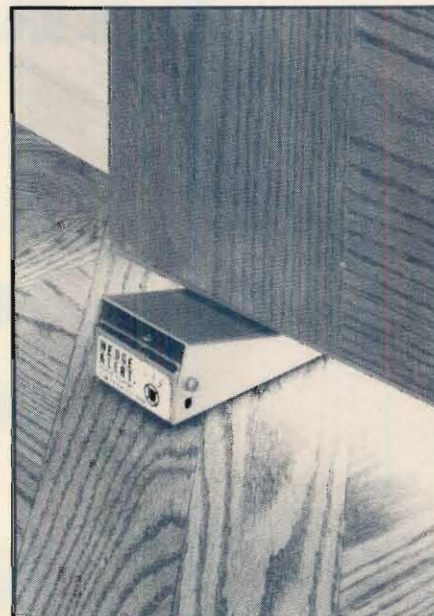
smart looking case is made of high quality leather-like black vinyl and has a nylon self-repairing zipper. Velcro fasteners are found on the flaps of inside pockets and straps giving the case the capacity to accommodate bottles, syringes, monitors and lancing devices. Regularly prices at \$29.95, the case is being sold through December 31, 1988 for \$24.95. Contact: RoCo Designs, P.O. Box 1762, Dept. ASG, South Bend, IN 46634; (219) 233-8498.



Embroidered Name Tapes

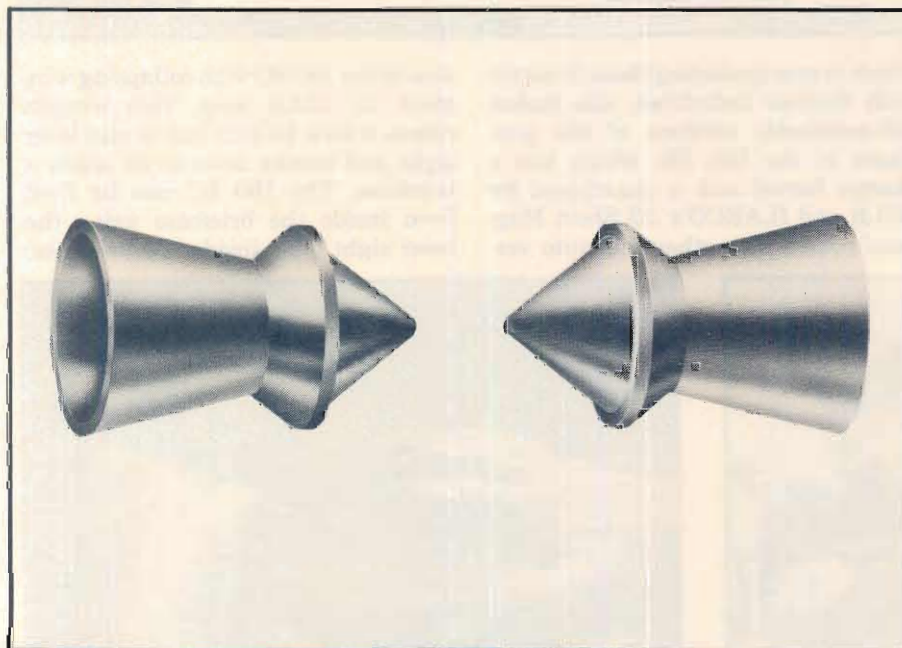
Regulation embroidered name tapes for military utility uniforms are now available for private citizens. The standard Army/Navy black lettering or Air Force subdued blue lettering on olive drab tape can be ordered with up to twelve letters of block type. Air Force/

CAP blue tape with white lettering or Police/SWAT black tape with white lettering is also available. Each personalized nametag sells for \$1.25 and there are no minimum orders. Contact: Karl Williamson, 9712 Cote Brillante, Overland, MO 63114; (314) 423-7210.



Wedge Alert

Timtronics Technology announces the introduction of Wedge Alert, a low cost unit designed to secure inward-opening doors, and to alert occupants in the event of attempted forced entry. Easily transported in hand luggage, the Wedge Alert is ideal for securing hotel and motel rooms, as well as for home and business use. The unit weighs approximately one pound and measures 6" x 2½" x 2". Housed in a gold-anodized, aluminum body, the Wedge Alert operates on a nine volt battery and has an 85 decibel alarm. Retail price is \$24.95 from: Timtronics Technology, P.O. Box 34136, Dept. ASG, Granada Hills, CA 91344; (818) 366-3245.



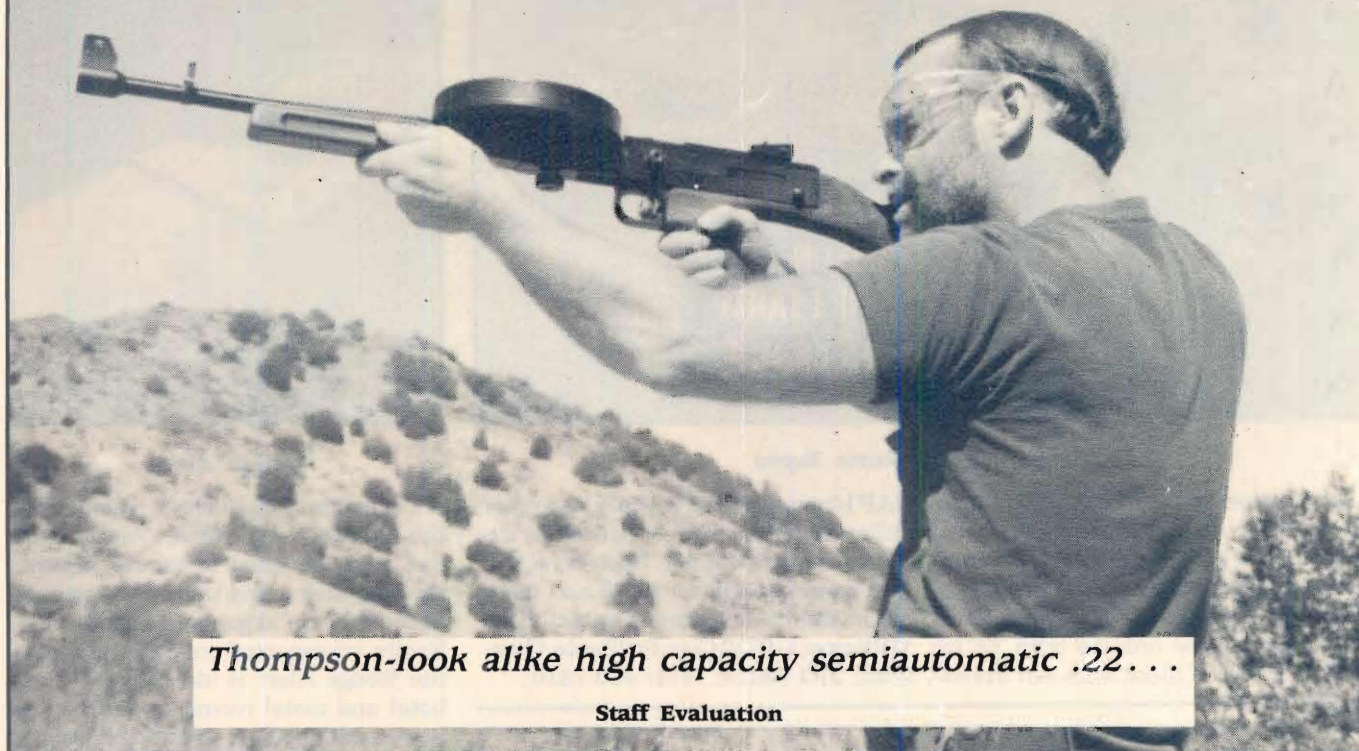
Beeman .25 inch Caliber Airguns and Pellets

Beeman reports that 5mm gives most of the flat shooting advantages of .177 caliber with the hard hitting weight

and diameter of the .22 caliber pellet. The 5mm caliber was so well received that Beeman has developed another

first for the United States: the introduction of .25 inch caliber airguns and pellets. While not suitable for long distant shooting, these large bore airguns are claimed to be especially effective at closer ranges and on larger prey. Beeman has introduced this caliber only in the new carbine version of their Beeman R1 magnum air rifle as the company states that this is the only model which has sufficient power to handle these extra heavy, ¼-inch diameter lead projectiles with efficiency. Contact: Beeman Precision Arms, Inc., 3440 Airway Drive, Dept. ASG, Santa Rosa, CA 95403-2040; (707) 578-7900. ●

SAR-180 Carbine



Thompson-look alike high capacity semiautomatic .22...

Staff Evaluation

MADE by Illinois Arms Company, Inc. (ILARCO) and exclusively marketed by Feather Industries, Inc., the SAR-180 .22LR carbine resembles the famous Thompson submachine gun.

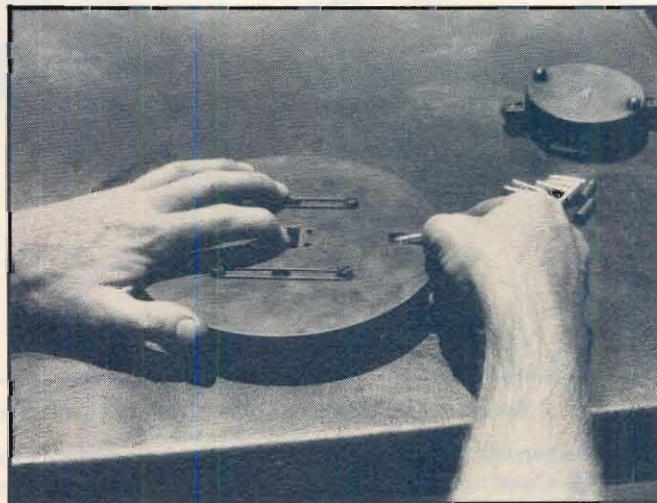
The SAR-180 is, however, a semi-automatic-only firearm. Its maker,

which is now producing these firearms with Feather Industries, also makes full-automatic versions of the gun. There is the 180 SR, which has a shorter barrel and is chambered for .22LR and ILARCO's .22 Short Magnum round. The other full auto ver-

sion is the 180 SC with collapsing wire stock in .22LR only. This weapon comes with a 14-inch barrel and laser sight and breaks down to fit inside a briefcase. The 180 SC can be fired from inside the briefcase using the laser sight (also inside the briefcase)



The SAR-180 with optional collapsing wire buttstock attached.



Cartridges are loaded in layers of 55 rounds each up to 165 rounds.

or it can be removed from the briefcase and assembled and fired with the laser sight.

The 180 SR and SC are available for sale to law enforcement and military buyers only (contact Illinois Arms Company, Inc., 1401 Ardmore, Itasca, IL 60143; (312) 773-0303). What's unique about the SAR-180, available with standard walnut forestock and buttstock or with collapsing wire stock, is its large capacity inverted drum magazine, which holds a total of 165 rounds of .22 ammunition in three tiers or layers of 55 rounds each. You can load 55, 110 or 165 rounds in the magazine.

The rounds feed downward into the breech from the magazine and are "gravity assisted," for more reliable operation. Spring tension is provided by a winder which comes with the fire-arm and magazine.

The SAR-180 is compact, measuring 37 inches overall, and made of milled steel parts except for the walnut stocks.

SAR-180 Carbine: Tech Specs

Caliber	.22 Long Rifle
Action, operation	semiauto, blowback
Magazine	detachable drum, 165-rd capacity
Overall length	37 inches
Barrel length	17½ inches
Weight with full magazine	9.6 pounds
Sights	fixed blade front with protective wings, rear peep sight adjustable for windage, elevation
Sight radius	24 inches (approx.)
Finish	blue
Stocks	walnut, wire optional
Price, suggested	\$499.95
Distributor	Feather Industries, Inc., Dept. ASG, 2300 Central Ave., Suite K, Boulder, CO 80301; (303) 442-7021

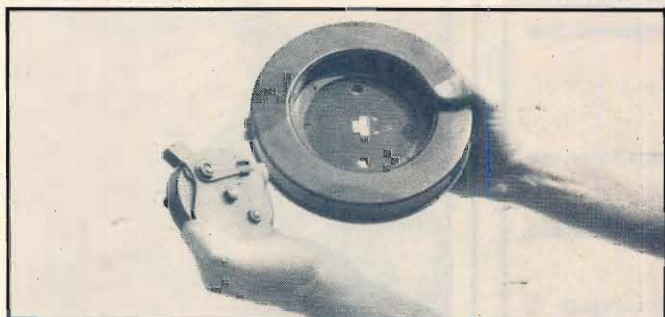
There are fittings on the receiver and barrel for a sling.

Firing from a closed bolt and operating by means of blowback, the SAR-180 has a 17½-inch barrel with annular cooling fins. Sights are a large blade in front with protective wings and an aperture rear sight click adjustable for windage and elevation. The

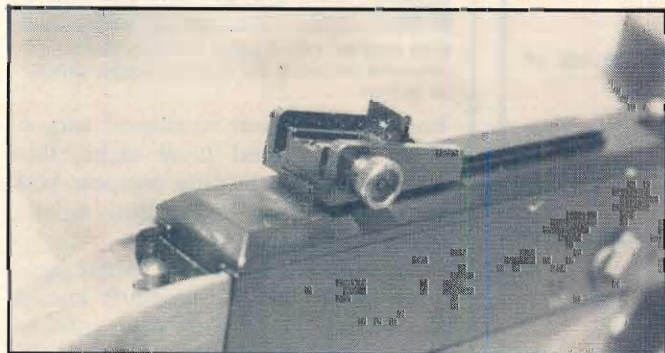
sights are excellent and permit very good accuracy.

We test fired the SAR-180 with Winchester Super X and CCI Stinger hollowpoint high velocity ammunition. The manufacturer recommends that only high velocity ammunition be used for effective operation.

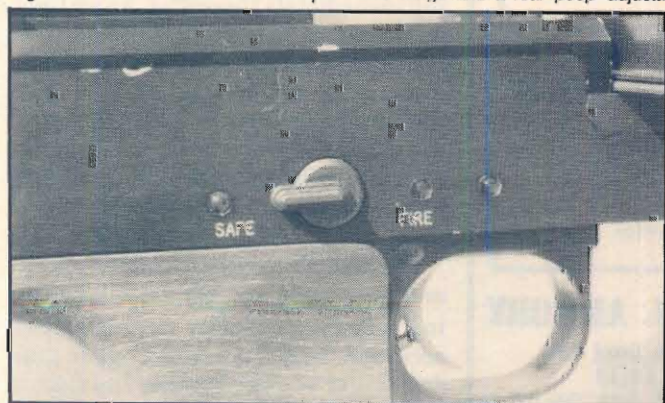
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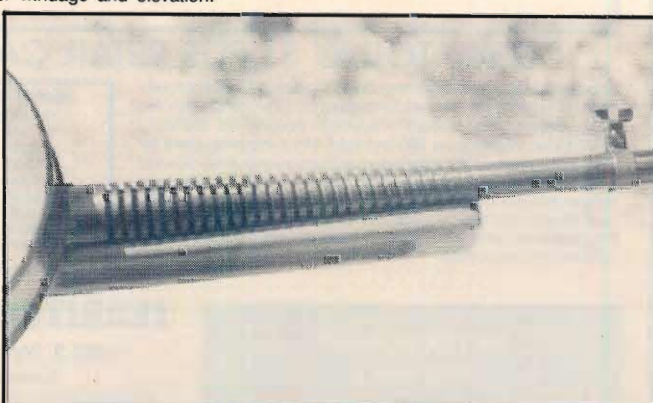
Spring tension is provided by a winder which fits in the center of the inverted drum magazine.



Sights are a fixed blade front with protective wings and a rear peep adjustable for windage and elevation.



The safety is located on the right side above and behind the trigger.



The barrel has ring-shaped cooling fins.



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SAR-180 Carbine

Continued from page 17

The carbine seemed to work best with the CCI ammo but both types functioned well overall. The SAR-180 offers considerable firepower with a fully loaded magazine and we had a great time spraying our target areas in the rapid fire mode. Using the weapon's sights at a range of about 50 yards and firing from a standing position we obtained good accuracy, making numerous hits on and eventually



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With standard walnut stocks and fully loaded 165-round magazine, the SAR-180 weighs almost 10 pounds.

knocking over our cardboard target. With an optional laser sight, this could be a devastating weapon. But it's also great fun for just plinking and general target practice.

We experienced several minor jams while firing full and partially loaded magazines. These were each quickly cleared and the weapon resumed firing immediately thereafter. As we fired more rounds the jamming seemed to increase and part of the problem seemed to be fouling from oil and unburned powder. Obviously, keeping the SAR-180 clean will enhance its reliability. Stripping for cleaning and maintenance is easy and requires no tools.

The SAR-180 is a handsome, reliable and well made and effective .22 offering very high capacity and very good accuracy. Look one over at your gun dealer's, or contact Feather Industries for more information. ●

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Fire Without Matches

Few things are more essential to survival than fire. . .

By Steven Dick

IF the cutting edge was man's first tool then his second was no doubt fire.

Warming shelters, scaring off predators, hardening wood points for spears, baking clay pots, cooking meals, preserving fish and meat with smoke, hollowing out logs for canoes, the list of fire's uses in primitive societies would have been endless.

So what would happen if through natural disaster, war or economic collapse we were forced to resume a semi-primitive agrarian life style? More to the point, how long could we heat our homes and cook our meals if matches (or butane lighters) were no longer available?

Wilderness survival manuals are full of fire starting techniques that work provided you have the right materials combined with perfect conditions and a lot of luck. The problem as I see it is that few of those writing survival manuals have ever had to repeat these procedures several times a day year round.

For a matchless fire starting method to be practical it needs to be simple, quick, and easily accomplished with common materials. Given we are talking about a long term survival scenario rather than a "lost in the woods" situation we'll have a couple of advantages. First we'll be able to plan our actions much farther in advance, preferably before our match supply runs dry. Second, we'll have many more basic raw materials to work with than can be easily picked up in the wilds.

The primary means of starting fire for European cultures over the last



A collection of firesteels and tinderboxes. In the days before matches people carried these small metal boxes with a firesteel, flint and a small quantity of charred cloth for starting fires. The tinderbox on the right has a "fire glass" magnifying lens built into the lid for use on sunny days.

1,000 years (possibly longer) has been flint and steel. Most of us have heard references to early American pioneers using this method but if you're like me you probably thought it was a long lost art. I suppose it would have been if it wasn't for the modern "Buckskinning" blackpowder shooters movement. Buckskinners do their best to recreate life on the 18th and early 19th century frontiers. Building the flint and steel fire has become one of the sporting events common to blackpowder rendezvous. Because of this flint and steel sets and the knowledge required to use them are available to anyone who wishes to learn the technique.

The four basic items needed to start fire with flint and steel are flint or other suitable rock, a fire steel, something capable of catching sparks, and tinder. Of these items the most criti-

cal and difficult to obtain is the spark catching material. The most common spark catching material used with flint and steel has long been charred cotton and linen cloth. Both of these are historically correct, Lewis and Clark for instance carried supplies in linen sacks that were recycled into charred cloth.

Char cloth is produced by heating it in a low oxygen environment so that it becomes something similar to charcoal rather than burning to ash. Place the cloth in a metal can with a tight fitting metal lid and punch a small hole in the lid. Now set the can on a fire and watch for smoke escaping through the hole. When the smoke decreases slightly remove the can and stick a nail in the hole while the can cools. If the cloth is a dark brown it wasn't allowed to heat long enough. If it falls apart at the slightest touch

it was heated too long. The cloth used needs to be 100 percent free of synthetics and dye with the heavier thicknesses working best.

Though charred cotton cloth works fine I tend to believe under the scenario we are discussing even rags will be too valuable to burn. Next question is usually, "So what did the mountain men and Indians use when char cloth wasn't available?" Survival manuals normally list things like dry grass, shredded tree bark, cattail down, fungus, and lint from your pocket. Feel free to try any of the above that suits your fancy but I seriously doubt you'll have any luck catching a spark. What does work is very rotten punk wood charred in the same manner as cotton cloth.

By rotten I mean wood decayed to the point it has the texture of a sponge and can be broken off a log with your bare hands. Maple is said to have been the preferred punk in pioneer days but I have also had good luck with red alder. It's probably best to gather a number of different rotten woods from your own particular location and see

what works best for you.

Charred punk wood is not as consistent as cotton cloth, one batch may catch sparks off the steel at the first blow and the next not at all. This is not to say the charred punk wood that doesn't catch sparks is useless, as I will go into later in the article. With practice you'll soon have the feel for just how decayed the wood needs to be and how long to char it. Once a spark catches on charred punk wood it is next to impossible to extinguish without water and it seems to burn hotter than cotton char.

Modern copies of pioneer fire steels are available from most blackpowder supply companies such as Dixie, Jas Townsend, and Mountain States, Track of the Wolf, etc. Most are shaped like small bows and fit over two, three or four fingers depending on size. How well the "strike a light" sparks depends to a certain degree on the skill of the blacksmith forging it. Two I have personally found to throw large quantities of hot sparks were forged by Michael Quade of Arrowhead Forge.

The steel is struck against the sharp

edge of a hard stone which shaves off extremely fine splinters of metal and heats them white hot by friction. Flint has been the traditional stone because it is both very hard and breaks into keen edged fragments. Other stones will work, particularly the quartz based minerals, chert, petrified wood, etc. Look for stones that break into relatively flat sections with sharp edges. As a rule few of these stones will hold an edge as well as flint but they can be broken or chipped to restore the cutting surface.

To strike a fire hold the charred material *on top* of the flint close to the edge and strike the stone with a long sweeping downward swing of the steel. Cotton char cloth can be wrapped around the flint edge and the steel struck through it. When a spark catches in the char a small glowing spot will appear. Blow gently on this spot and it will rapidly spread through the fabric or punk.

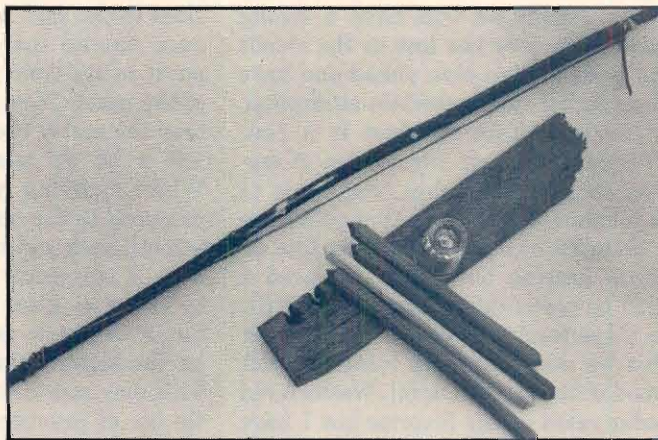
Charred material will glow but it doesn't produce an open flame so starting a fire requires one more step. Lay the glowing char in a "bird's nest" of



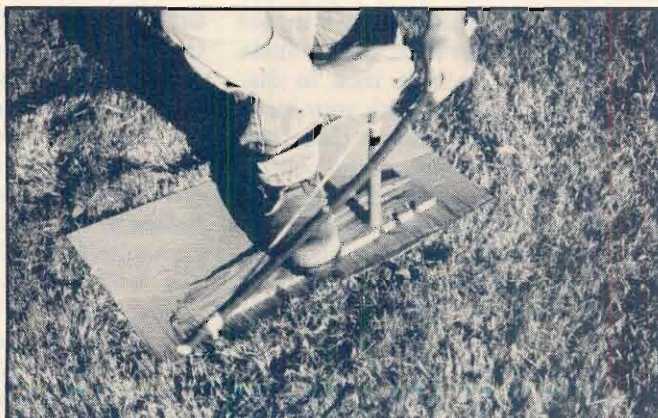
The most difficult part of flint and steel fire making is finding something that will catch a spark. Cotton cloth and rotten punk wood, once charred, work well. On the left are the uncharred cloth and wood and on the right are the finished products.



With charred cloth wrapped around the flint, strike the steel down across the edge of the stone. Sparks should catch in the cloth and with gentle blowing will spread through the char.



The basic materials for starting a fire with bow and drill. Top, the bow with a leather boot lace for a cord. Below, fire board, drills and a shot glass for a bearing block.



Use long smooth strokes on the bow with just enough pressure to allow the drill to spin in the notch. With dry wood and a little practice it takes only a minute or two to create fire.

Fire Without Matches

fine dry tinder: Shredded paper, grass, leaves, cedar bark all work well. Now gently blow on the ember till the tinder bursts into flame.

Many old time tinder and tobacco boxes have a small magnifying glass built into the lid for fire starting. On sunny days I have found using the "burning glass" on a piece of char is a very easy way to obtain fire. This is one of those uses for charred punk wood that doesn't work with flint and steel as the magnifying glass can concentrate heat longer than a tiny steel spark. Again, once the char is glowing it's a simple matter to light dry tinder.

Bow And Drill — My last "fire without matches" technique is the bow and drill friction fire. Practically every survival manual describes this method though most don't sound especially optimistic that it will work under survival conditions. In theory the materials needed can be picked up almost anywhere but in reality without the right tools fire can be a pretty iffy thing. Again we will have a strong advantage over the lost in the woods survivor, we can plan ahead and have the needed raw materials stockpiled.

The first item required is a bow. This can be about any section of sapling roughly 30 inches long by ½ to ¾ inches thick. Ideally it should have a little bit of flex but nothing like an arrow casting bow. Next we need a drill or preferably a number of drills as these tend to wear out quickly. For this we want bone dry relatively soft wood without pitch or oil. Western red cedar rates as my favorite but I have also had good luck with red alder and willow. Other woods to try are white cedar, cottonwood, birch, aspen and poplars. Cut these about 6 to 8 inches long, strip the bark off and whittle them down to ½ to ¾ inch in diameter. Round one end with your knife and make a blunt point on the other. After notching the ends of the bow tie a heavy cord on leaving just enough slack to rap the cord around the drill. I use nylon boot laces but it's best not to use the ones out of your boots as this procedure will wear them out fairly quickly.

Now we need a flat plank 2 to 3 inches wide and ½ to ¾ inches thick for use as a fire board. This should be made from one of the woods listed for fire drills. Cut a triangular notch

roughly ¼ inch into the fireboard and then gouge a small hole at the point of the V. When the drill is spun in this hole it will quickly wear a drill diameter hole into the wood. Make sure this hole is far enough back that it doesn't overlap the edge of the fireboard.

The last item required to complete the fire bow and drill is actually the hardest to obtain in the wilds. This is the bearing block the head of the drill spins in. The less friction between the bearing block and the drill head the easier the drill spins which in turn makes fire much more certain. In the past hollowed out stones, hardwood knots, and carved bones were used but none of these items are as good as a one-ounce whiskey shot glass.

Under the fireboard place something flat and dry to catch the glowing ember when it forms. At home this can be a piece of heavy cardboard or plywood, in the wilds a section of tree bark. Kneel down on your right knee and place your left foot on the fireboard close to the drill notch. Wrap the cord once around the drill and place the point in the hole you cut at the base of the notch. Now place the shot glass over the end of the drill and lock your left wrist up against your left leg. While applying moderate downward pressure to the shot glass make long smooth back and forth sweeps with the bow. If too much pressure is applied to the shot glass the drill will bind but if too little is applied there will be inadequate friction to start fire. This may sound complicated but a little bit of practice will quickly show you how much pressure is needed.

As the bow moves back and forth the drill spins in the hole. In a very short time there should be smoke rising from the drill hole and a wood dust pile forming in the notch. Watch the sawdust pile and when it seems to be smoking of its own accord carefully lift the drill out of the hole. If the sawdust continued to smoke there is an ember hiding in the center of the pile. Relax for a minute and the ember will gradually burn its way through the pile.

Now you can either apply tinder to the ember and gently blow it into a flame or light a chunk of charred punk wood from the sawdust. Given the pile is hard to move around and is fairly delicate to blow on I prefer using charred punk wood as the next step.

Again this is a good use of punk wood that doesn't work with flint and steel.

Assuming you have the right materials, the most common problem is getting the right depth and width on the notch. Too shallow a notch and the sawdust will form a pile around the rim of the drill hole. Too narrow a notch and the sawdust forms a thin stack that doesn't have the mass needed to feed an ember. Too wide and the sawdust forms a wide shallow pile. As with most skills constant practice will soon teach you what is needed.

The time to start thinking in terms of matchless fires is sometime before your match supply runs out. Collect and store tinder, punk, and suitable wood long before they become a necessity. By the time they are needed they will have dried and be much easier to work with thus making the transition much easier. Char your supply of punk wood while you still have matches and then use it to extend the life of your match supply.

I would also recommend two books on the subject. The first covers flint and steel, *Making Sure-Fire Tinder*, by David S. Ripplinger published by Track of the Wolf Inc. Box Y, Osseo, MN 55369. The second covers the firebow, *Primitive Fire & Cordage*, by John McPherson, P.O. Box 96, Randolph, KS 66554.

Master these techniques and you will always have one of the most basic tools, fire, available to you. Just as it has been since the dawn of time, few things are more essential to survival. ♣

Source List:

Mountain State Muzzleloading
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Williamstown, WV 26187

Track of the Wolf
Box Y
Osseo, MN 55369

Jas Townsend & Son Inc.
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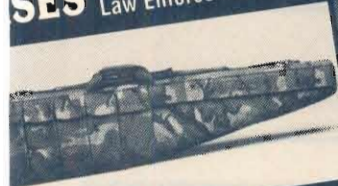
Dixie Gun Works
P.O. Box 150
Union City, TN 38261

Arrowhead Forge
Rt. 1 Box 25
Willmot, SD 57279

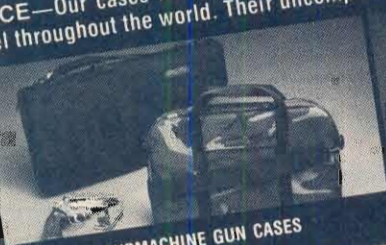
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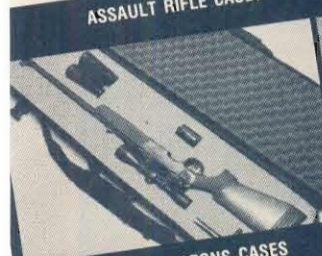
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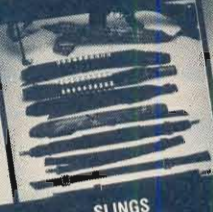
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By Staff Report

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The heavy, hollow, knurled three-piece aluminum handle is available in three colors: a clear resin-coated metal color, dark green or bright orange. In the handle butt cap is a liquid filled compass. The waterproof handle contains a small survival kit with fish line, hooks and sinkers, needle, thread, small blade, bandage, matches, wire saw, magnesium and chemical flint fire starter.

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The Price of \$295 plus shipping includes a lifetime warranty. For more information or ordering, contact Freedom Forge, Inc., Dept. ASG, 717 N.E. 8th Street, Grants Pass, OR 97526; (503) 476-8508. ■

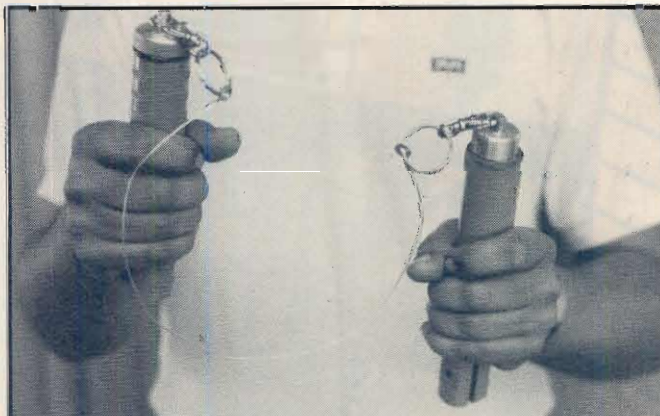
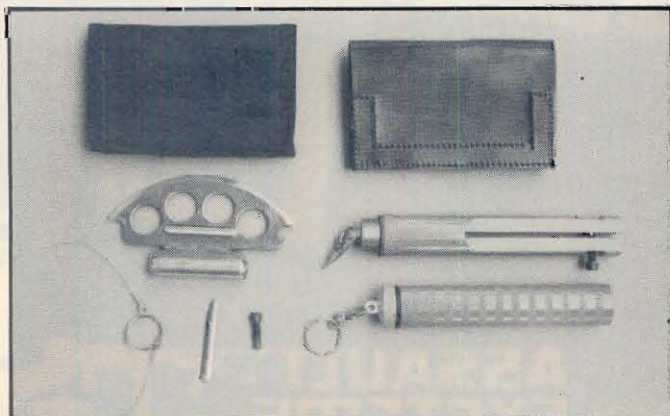


ABOVE — The blade is $\frac{3}{16}$ -inch 440 stainless steel.



RIGHT — One way of carrying the Pack-Axe.

BELOW LEFT — The Pack-Axe broken down into its parts and including the two sheaths. Not shown is the compass and survival kit which were not included in this sample.



BELOW RIGHT — The wire saw ready for use.

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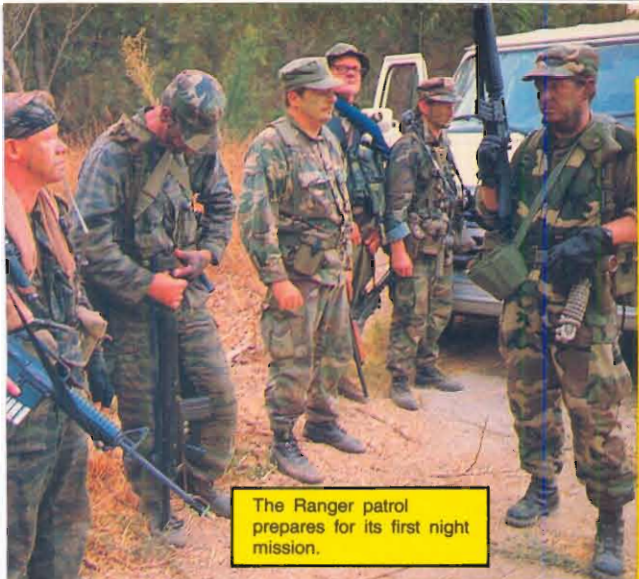
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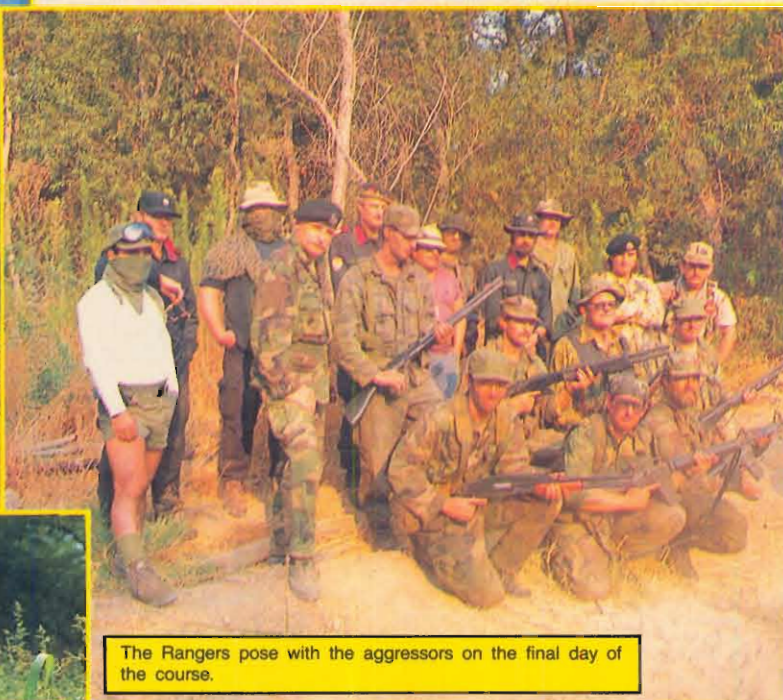


Gary Borton discusses tactics with Marquez Gibson.





The Ranger patrol prepares for its first night mission.



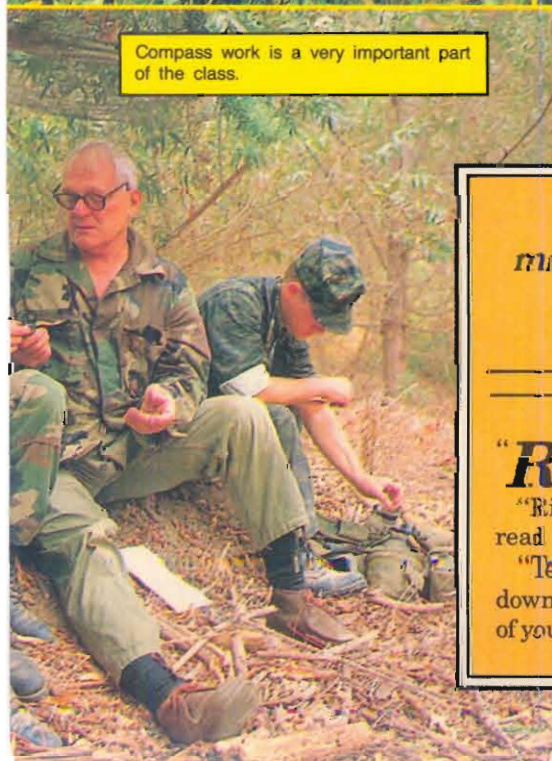
The Rangers pose with the aggressors on the final day of the course.



Morey Benoun tries to locate a sniper hidden in the trees.



Bill Ungerman, Director of Operations, gives instructions on counter-sniper procedures.



Compass work is a very important part of the class.

Whether on 24-hour standby or on an actual mission, the Ranger unit is pushed to the physical and mental limits of endurance. . .

By Scott Stoddard

RED Rider, Red Rider, this is Ripsaw Bravo. Do you read, over?"

"Ripsaw Bravo, this is Red Rider. We read you wall to wall, over."

"Ten-four Red Rider. We have a downed F-14 five kilometers northeast of your location. The pilot has survived

but is in danger of being picked up by Comaguan guerrilla forces. We need you guys to get him out."

"Ten-four Ripsaw. Do we have any coordinates for his present location, over. . . ."

Continued on page 64



Made In Austria:

Glock 17 and 19 Pistols

*Innovative, extremely accurate, rugged, lightweight,
high capacity semiautomatic handguns...*

By Jim Benson

PROBABLY most of you are by now familiar with the ridiculous "plastic gun" controversy touched off in the media by the Glock 17 pistol, which is actually mostly steel.

Some ignorant journalists and others were contending the Glock could pass through airport metal detectors because of the Space Age polymer material used in its frame. For the most part this nonsense has been dispelled and the Glock 17, since its introduction in this country a few years ago, has gone on to become one of the most popular and highly rated handguns on the market.

Now there's another Glock available, the Glock 19. It's basically the same pistol as its big brother the Glock 17 except it's about half an inch shorter in overall height, length and barrel length, making it more suitable for

concealed carry yet still providing lots of firepower.

While Glock 17 will hold a total of 18 rounds of 9mm Parabellum (NATO) ammunition, the Glock 19 holds a total of 16 rounds with its standard 15-round magazine or 18 rounds with an optional 17-round magazine available.

With standard loaded magazines, Glock 17 weighs in at about 31.5 ounces and Glock 19 is about 28.5 ounces — less than 2 pounds each fully loaded. This light weight is possible with the use of a Space Age plastic (polymer) material that is stronger than steel but has only about 14 percent of its weight.

The receiver is made mostly of this polymer. The barrel, slide and some other parts are made of specially hardened and machined steel. The Glocks have only 33 component parts, about half the number contained in many

auto pistols. Glock pistols are used by the armed forces of Austria, Norway and the Netherlands and have been adopted by law enforcement agencies and military units in many other countries. An increasing number of law enforcement agencies in the U.S. are using Glock pistols as well.

The recoil-operated, single-action, hammerless Glock pistols have only one manual safety, a sort of dual trigger system that includes a pivoted lever that protrudes through the front of the trigger. When the trigger is depressed this safety lever pivots and moves up into the trigger body, thus enabling the trigger to continue its movement rearward to effect a discharge.

This means that unless the trigger is pulled rearward by the shooter from the front the trigger cannot move fully backward and the weapon will not fire,



Shooters found the Glock 17, left, and 19, right, were equally accurate at the gun range.

Glock 17 and 19 Pistols

so dropping the gun or bumping it inside a holster would be far less likely to effect a discharge than if there was no such safety system. While designer Gaston Glock recommends against carrying the pistols with a round chambered, this safety, along with a passive firing pin block and "half cock" safety make carrying the Glocks with a round chambered a safer proposition in those military, law enforcement or self defense situations calling for a high state of readiness. There isn't room here to go into more of the technical details of these remarkable handguns. Much of those details have already been discussed at length in other magazine articles. Suffice it to say the Glock pistols have been a sensational success story with their innovative design and materials, their extremely rugged construction and terrific accuracy.

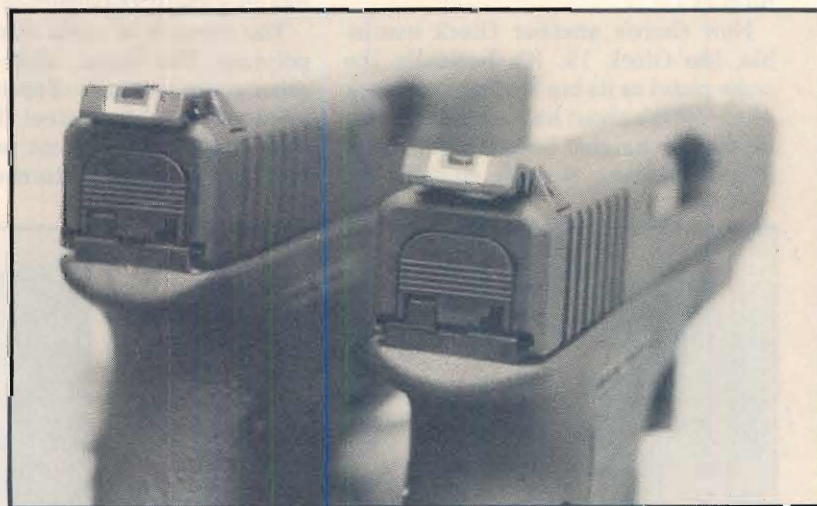
While we only had the opportunity to run a few dozen rounds of ammunition through each pistol, we know from previous tests done by the Austrian military that these pistols have fired 10,000+ rounds at a time without a misfire or appreciable wear. Service life is said to be much longer than most conventional auto pistols on the market.

Continued on page 60

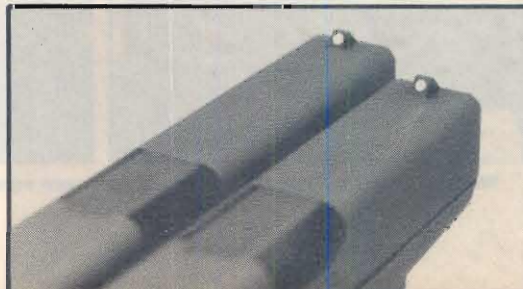


ABOVE — The Glock 19, top, is only slightly smaller than the Glock 17.

LEFT — The barrel of the Glock 17, bottom, is about a half-inch longer than the barrel of the Glock 19, top.



The sights of the pistols are the same. Rear sight is adjustable for windage, elevation.





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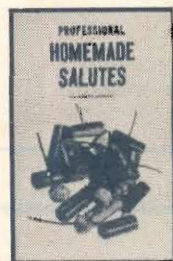
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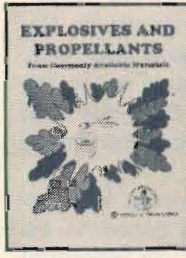
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EACH year in the United States, over 2 million people receive some type of burn. The majority of these are minor and require little or no treatment. Yet, over 10 percent of the victims do require treatment and some of these, despite advanced medical technology, will die from burn injuries.

Just watch the evening news for a week and you will probably hear of someone being burned by a fire or an explosion. My purpose in writing this article is to present some basic facts about injuries caused by heat. By having some knowledge about this type of injury, you hopefully will become more careful. One should know how to assist someone who wasn't careful or was simply at the wrong place at the wrong time.

The obvious and most common causes of burn injuries are fire, hot metal, scalding hot fluids, or steam. In the hot summer months, especially near the beach or large bodies of water, the ultraviolet irradiation from the sun, better known as sunburn, can cause severe skin damage.

Recently, the news media has carried stories about the concerns expressed by many scientists regarding the change in the chemical composition of the atmosphere. Some scientists believe this change is caused by the emission of ozone-destroying chlorofluorocarbons. Ozone, a chemical that absorbs ultraviolet radiation from the sun, is thinning. This allows more harmful ultraviolet radiation to reach the earth. Since it is believed that the major cause of skin cancer is the ultraviolet rays of the sun, too much sunburn over a period of time could kill you.

Other burn causes: mechanical abrasions and electrical current (these two may cause occult or hidden damage and frequently progress in severity after the initial injury); chemicals such as acids and alkalis (alkali burns are usually more severe than acid burns due to alkali lipid penetration and rapid burn depth. This is why alkali burns are more likely to result in a full thickness burn); X-ray irradiation; nuclear radiation; dry heat; severe cold such as that from liquid nitrogen.

Burns, especially those caused by an open flame may be associated with internal injuries not immediately apparent or suspected. Don't fall into this trap and ignore what you can't see. Heat and toxic fumes can burn and damage the esophagus and lungs. Various synthetics when burned give off toxic fumes. Many of your local fire

Degrees Of Depth:

Thermal Injuries

The anatomy of burns and their medical treatment . . .

By George E. Dvorchak, Jr., M.D.

fighters can verify this from personal experiences.

An explosion is especially dangerous since it can cause trauma in addition to burns to organs from the combustion. Along with getting a standard medical history, ask about tetanus immunization. This is important because someone with extensive burns will need his immunization status against clostridium tetani evaluated.

A major factor used to determine the potential for healing of a burn is its depth. By classifying burns into three degrees of depth, you can better assess the extent of the injury and probability of recovery.

First Degree: this involves only the epidermis or outer layer of the skin. It is usually caused by ultraviolet damage (better known as a sunburn) or brief thermal contact as from a mild scald.

Clinical findings include erythema or red skin which is painful. This discomfort is present since the nerve elements in the dermis or layer below the epidermis is intact. Although quite painful, on many occasions, it will heal on its own without scarring. A fever or systemic symptoms are rare unless a large area of the body has been involved.

Usually no treatment is indicated except that aspirin may be taken to

ease the pain. Before taking any medication as aspirin, be sure you are not allergic or have a condition that is contraindicated to the medicine.

Second Degree: this is also known and probably more correctly so as a partial thickness burn. The epidermis and some of the underlying dermis is destroyed.

Clinically, the skin is red as in a first degree burn but with the addition of blister formation on the epidermis and dermis. There is also a weeping surface with swelling. Pain is present and can be slightly decreased depending on the burn's depth. The burned area can be hypersensitive to even a light touch.

Someone with a partial thickness burn is very vulnerable to infection so try to use sterile techniques. Conversion to a full thickness burn as well as fluid and protein losses can occur. Skin texture is normal to firm.

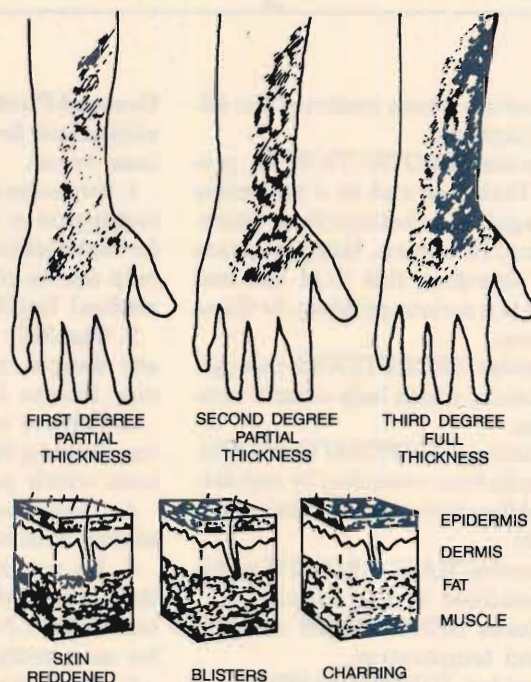
Cover the entire area with sterile burn pads. If not available, cover with clean dressing, one without a lot of lint that can get into the burn. If sterile water is available, moisten the dressing. Watch for shock and respiratory problems and transport the patient to a hospital for medical care.

Superficial second degree burns may heal within two weeks with little scarring. If you were unfortunate to exper-

First Degree Burn — A superficial injury that involves only the epidermis. It is characterized by reddening of the skin and possibly some swelling. The patient will usually complain about pain at the site. The burn will heal on its own without scarring.

Second Degree Burn — The first layer of skin is burned through and the second layer is damaged but the burn does not pass through the underlying tissues. There will be deep and intense pain, intense reddening, blisters and a mottled (spotted) appearance to the skin. Burns of this type cause swelling and blistering for 48 hours after the injury. Intense pain will accompany this type of injury. If properly treated the tissues will heal themselves with little or no scarring.

Third Degree Burn — This is a full thickness burn with all the layers of the skin damaged. Some third degree burns are difficult to tell from second degree burns. However, there are usually areas charred black or areas that are dry and white. The patient may complain of severe pain, or if enough nerves have been damaged, he may not feel any pain at all, except at the edge of the burn where adjoining second degree burns may be causing pain. This type of burn may require skin grafting. As third degree burns heal, dense scars form.



ience a deep partial burn, then four to six weeks may be needed for healing. Scarring here is likely to occur. The outcome is generally good provided that there is no infection to add to complications and your nutrition is adequate. Good nutrition plays an important role in wound healing. You will have a problem with any healing if you are in negative-nitrogen balance. This means that your body is using more protein than it is making, a common finding in starvation. Vitamin C and zinc deficiencies along with chronic corticosteroid therapy are all implicated in impairing wound healing. Steroids reduce the inflammatory response to an initial injury which impedes the clearing of necrotic tissue.

Third Degree: this is known as a full thickness burn and is the most serious of the three.

Clinically, the burn surface has a charred, waxy or leathery appearance. Depending on the cause of the burn, the skin may appear white, translucent and dead. The surface is usually dry instead of weeping. Since the burn is deep, the nerve elements have been destroyed and there is no pain. There is also no sensitivity to temperature. Blisters don't occur.

Care is the same as for second degree, and transport. This is a true life threatening emergency. Transport

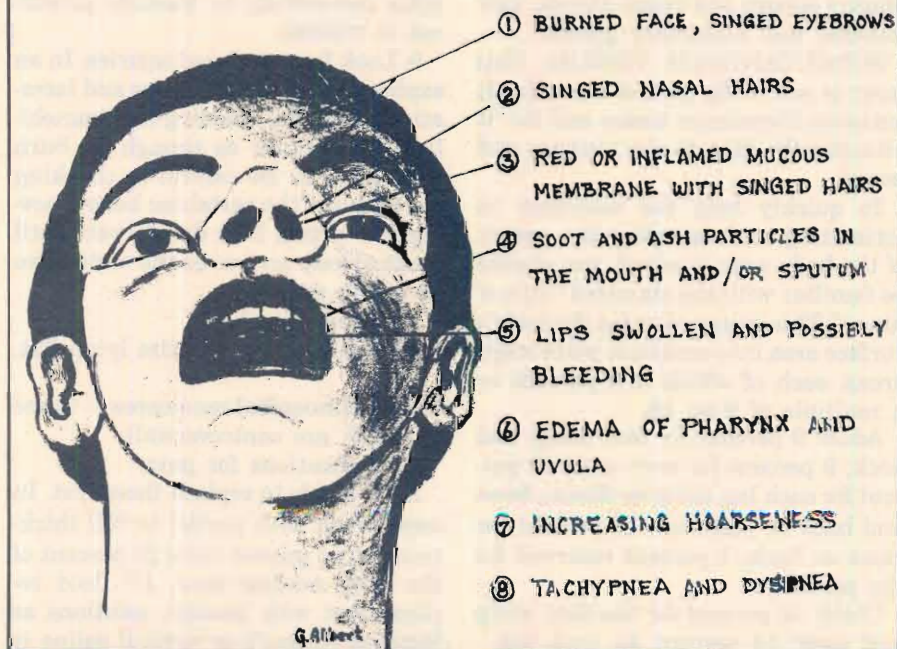
tation to a burn center is highly recommended. By knowing what is available in your area before an emergency arises, you are better able to pick the best facility.

Since all skin layers have been destroyed in third degree burns, there is

no chance for regeneration. Grafting is therefore mandatory.

Skin — Since skin, the largest body organ, is so important to and the main structure compromised in a burn, some space should be devoted to this impor-

INHALATION INJURY SIGNS AND SYMPTOMS



Thermal Injuries

tant structure which performs the following functions:

1. Provides **PROTECTION** in preventing fluid loss and as a protective barrier against infections from microorganisms. In a burn, this protection is gone; therefore, this fluid loss and infection is a serious problem for those with burns.

2. Enables **SECRETIONS** through sweat glands, which help control temperatures.

3. Maintains **TEMPERATURE CONTROL** aside from sweating, by regulating blood flow through the skin's capillary beds.

4. Promotes **HAIR GROWTH** to follicles contained in the dermis.

5. Induces **SENSATIONS** to pain, touch and temperature.

6. Provides **IDENTIFICATION** as from fingerprints and looks.

7. Acts as **SYNTHESIZER** for vitamin D to the body.

The skin's three layers of tissue:

EPIDERMIS: The outer layer which is made up of stratified squamous epithelium. It provides protection and does not contain blood vessels or lymphatics. Its thickness varies depending on the region of the body. It is thickest on the soles of the feet and palms of the hands.

DERMIS: This irregularly arranged connective tissue contains nerves and nerve endings, blood vessels, lymphatics sebum and sweat glands, hair follicles, and mammary glands.

SUBCUTANEOUS TISSUE: This layer is not really part of the skin. It contains fibroelastic tissue and fat. It attaches the skin to the muscles and bones.

To quickly help the examiner in estimating and assessing the extent of the body area involved, you should be familiar with the standard "rule of nines." This system divides the body's surface area into anatomic percentage areas, each of which is 9 percent or a multiple of 9 as 18.

Adult: 9 percent for face, scalp, and neck; 9 percent for each arm; 18 percent for each leg, anterior (front), front and back or posterior; 18 percent for chest or back; 1 percent reserved for the perineum.

Child: 18 percent for the face, scalp and neck; 14 percent for each leg.

General First Aid Treatment — Considerations for partial and full thickness burns:

1. Burns are serious. First aid doesn't encompass a treatment but provides for stabilization until proper medical help can be obtained, preferably in a medical facility with a burn center.

2. Carefully remove the victim from any danger, mindful of injuries that may involve the vertebrae.

3. Remove contaminated and burning clothing. Synthetics melt and hold heat which produces deep injuries.

4. Cover burns with sterile pads soaked with sterile water if available.

5. Do not cover burns with gauzes that may stick to the burn and contaminate it. A clean sheet may be better as a temporary treatment.

6. Do not use ointments and sprays on burned areas since the hospital physician will only have to clean this off. Don't complicate his job.

7. In chemical burns, use continuous cold water irrigation of the injury until medical care is obtained or contacted. An exception is alkali burns caused by dry lime. When water mixes with lime, you get a corrosive mixture that burns. If dry, brush it off unless a lot of water is available for rapid and thorough irrigation.

8. The danger in electrical burns is that they may not appear severe on the surface, and the patient may have extensive internal injuries. Heart damage may or may not be apparent so EKG monitoring by medical personnel is critical.

9. Look for associated injuries. In an explosion, look for fractures and lacerations. Stop the bleeding and immobilize the fracture as though no burn were present. Be careful in checking the status of the vertebrae before moving the victim. If in doubt, wait until medical help arrives so the victim can be safely moved.

10. Treat for shock.

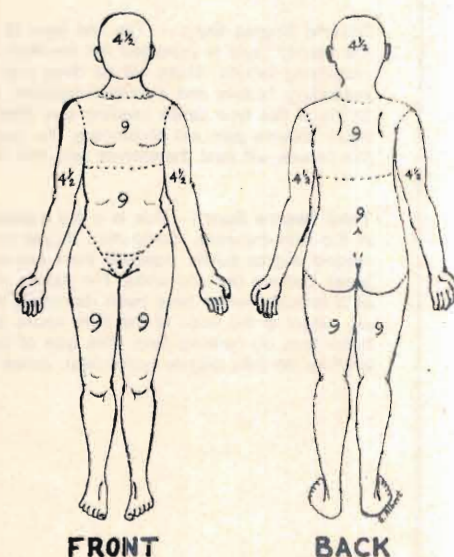
11. Transport the victim lying flat.

General hospital measures — (some of which are controversial):

1. Medications for pain.

2. IV fluids to replace those lost. In any person with partial or full thickness burns greater than 20 percent of the body surface area, IV fluid replacement with isotonic solutions as lactated Ringer's or normal saline is

RULE OF NINES



necessary.

3. Sterile dressings with topical ointments and/or antibiotics.

4. IV antibiotics for prophylaxis (controversial) and if an infection is present cultures should be done before antibiotics are started.

5. Tetanus prophylaxis: it is important that you keep your immunizations updated. You, as well as your doctor should have a record and be responsible for getting immunizations when scheduled.

6. Antacids to prevent Curling's stress ulcers of the duodenum.

7. Proper nutrition. More protein and calories are needed.

8. Surgical grafts and plastic surgery may be required.

9. Debridement of loose dead tissues.

10. Counseling.

The best treatment is prevention. For most, a sunburn is the worst that will ever be experienced. For those unfortunate to experience a partial or full thickness burn, their lives could be at stake if they are not treated at a medical facility, preferably one with a recognized burn center. In burns, you can't do much to treat. But in the event of occult injuries, first aid is important, especially in surveying the victim before transport.

Visit your local fire company or ambulance association and inquire about taking a first aid or EMT course. Learn how to properly assist or treat, and not maim a victim due to ignorance. ●

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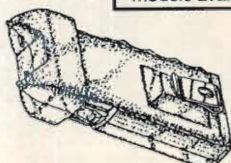
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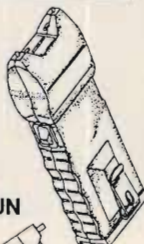
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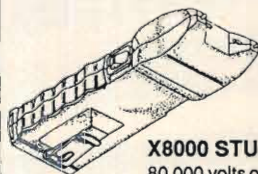


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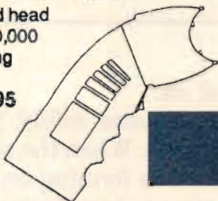
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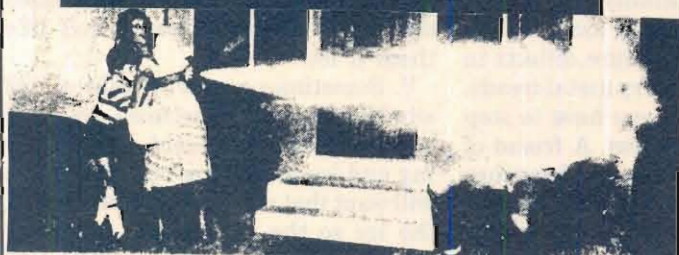
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Cold Weather:

10 Winter Driving Tips

Having an accident-free winter. . .



—By Wayne Marshall—

PREPARATION and planning are the key factors in an accident-free winter. Here are 10 tips to follow for greater safety.

1. Your tires are absolutely the first line of protection from the elements. The safest tires are studded mud and snow (M/S) tires on all four wheels. The next best are studded mud and snow tires on the two driving wheels. Some states do not permit studs so check with your local tire dealer.

Good studded M/S tires will get you through several inches of snow, in and out of driveways, parking lots and some backroads. They give reasonable stability on icy roads and, except for chains, give the best stopping performance on ice.

2. Carry emergency clothing in the car. I suggest a stocking cap, snow boots, mittens, a pair of coveralls, and a blaze orange vest so you will be seen if you have to walk. If you slide off the road or get stranded, you need to protect yourself from getting wet. Getting

and staying wet can lead to frostbite and severe chill.

3. If you get stuck, kitty litter is an efficient way to get traction under your wheels. Carry the kitty litter in a couple of plastic gallon milk jugs or old inner tubes. Placed in the trunk, they add weight and stability.

Sand and dirt are okay too, but they freeze solid if any moisture collects in them. Some people carry metal treads. The disadvantage is you have to stop and go back to get them. A friend of mine carries a few evergreen branches in his trunk for use under his wheels.

4. When driving on ice, whenever possible use the right shoulder of the road. It usually has gravel and gives better traction. This won't work if there is snow, but I like to have one side of the car stable so that I can stop.

5. Plan your snow route to avoid a stop sign or stop light on top of a hill. Traffic piles up, people spin their wheels to get started and this creates

a bed of ice.

6. To get home safely, you have to be able to see. When the snow is blowing and ice is forming on the streets, it is no time to have faulty windshield wiper blades. Every November 1st, buy and install a new set of wiper blades. It is cheap insurance! I have purchased the new "Winter Wipers" and like them a lot.

7. Sometimes you will want a cold windshield and sometimes you will want a warm windshield. If it is raining and ice is forming on the car, you will want that windshield warm to melt the ice so the wipers will work.

If it is just a few degrees colder and snowing, you don't want the snow to build up on the wipers, so keep the windshield cold. To do that, turn down the heat control and don't use the defroster. The snow will just blow off without sticking. Try it.

8. If you get stopped on an uphill slope, here is a technique to get started again.



Stick shift cars: Start off in 2nd gear. There is less power to the wheels in 2nd gear. It is the first two or three inches that are the most important. If you can get the car moving, even ever so slowly, you can usually make it up a slope. The trick is to do it **slowly**. I don't use the gas pedal at all! Just let the car do it by itself.

Automatic transmission cars: These are even easier to start on ice. Again those first few inches are the most important. Take it so easy that you will hardly be aware you are moving. Never, ever spin your wheels. That heats up the tires and handicaps you further.

9. If it is snowing or blowing, put on your lights. In a blizzard, put on your flashers. You want people to see you!

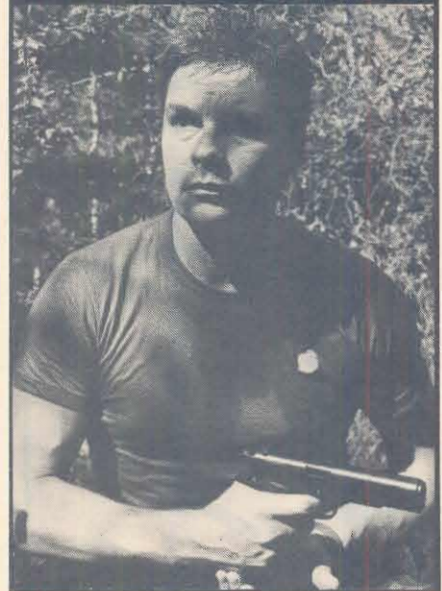
10. Chains are safest for moving on ice in heavy traffic, because they give better traction than anything else. I buy an extra tire and rim and keep it with my regular spare. When fall arrives, I install a set of chains on my two spare tires. It is a whole lot easier to jack up the car and slip on a spare tire than it is to lie on my back in the snow and slush, installing chains. It takes less than five minutes to change tires. Also, done ahead, the chains are fiddle-string tight and won't hammer the underside of my car. ●

Equipment Checklist

A good idea to prepare for winter is to have a box containing the equipment needed for winter driving. Store the box in the garage in summer and place it in the car trunk in the fall. My box contains:

- Long-handled snow brush
- Ice scraper
- Jumper cables
- Rags to clean the slush off lights
- Chains
- Kitty litter (see #3 in article)
- Flashlight (With extra set of fresh batteries)
- HELP sign
- Work gloves
- My emergency clothes (see #2 in article)
- Extra stocking caps and mittens for passengers

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Harry R. Weyandt, owner of NITRO-PAK Storage Foods & Emergency Supplies of Norwalk, California, presents the Economy-Pak year's food supply to Gessie Torres.

By Staff Report

A disabled Vietnam veteran from Palmdale, California was the top prize winner in ASG's 1988 Giveaway No. 2 contest. Gessie Torres, 40, an ASG subscriber, won the Economy-Pak year's supply of dehydrated, nitrogen-packed storage food from NITRO-PAK Storage Foods & Emergency Supplies — A \$715 value.

Leo P. Flibotte, a 43-year-old police officer from Hampton, Virginia, won the second prize, a Ranger 1911-A1.45 ACP pistol from Federal Ordnance.

Prize No. 3, a Cold Steel Trailmaster Bowie knife from the Cutlery Shoppe,

was won by Charles K. Coon, 56, a retired teacher and National Guardsman from Eureka, California, who says he is "very interested in survival."

Mark McPherson, 36, a printer from Ponca City, Oklahoma, was awarded Prize No. 4, lock picking tools and books from Steve Arnold's Gun Room.

Thomas Forlifer, 43, of Tampa, Florida, won Prize No. 5, 20 Delta Darts, also from the Cutlery Shoppe.

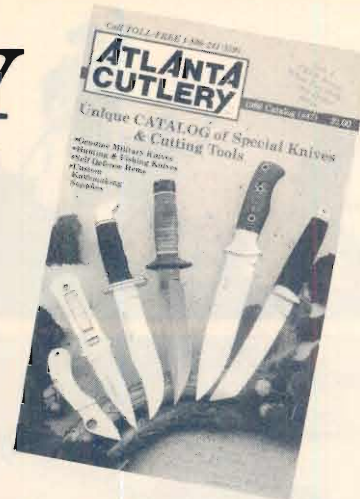
Congratulations to our winners! Watch for details of ASG's 1989 Giveaway No. 1 in next month's issue (January). ●

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The next 4 pages offer you some of the world's most fascinating edged weapons. Respected all over the world, these knives are cherished as much for their utility as for their legendary heritage. Military knife collectors, history buffs, world travellers, hunters, backpackers and knife lovers all enjoy owning these famous, exotic knives.

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Chinese Armed Police Issue Knife

Direct from the Chinese People's Republic, now you can get the actual, **rapid draw, double edge dagger** issued to the Chinese Armed Police, whose duties include patrolling China's borders.

The blade action of this design is very innovative. When it's closed, most of the blade is retracted into the handle and then locked by a cover that matches the handle. **With a touch of a button**, as you pull the handle down and away from the blade cover, a steel stem pulls the blade into the fully open position. Although this is NOT a switchblade, the **lightning fast operation of this knife looks like magic**. It's an ingenious way to give you a large knife to use that's not so large to carry. Each 5 3/4" long, highly tempered steel blade is stamped with its own serial number. Extremely hard, plastic grip is made from the same material used on an R.P.G. (rocket launcher). Color is olive drab inlaid with the state's red star on a blue shield emblem. Fits 1 1/2" belts. Weighs 7 1/2 oz. Overall length when open—9 1/2"; when closed—6 1/2". #1-SW-169. . . . \$49.95



New Spanish Military Combat Knife

Genuine issue to the Spanish Army! Efficient design gives you needle sharp point, 3" double-cut saw that really works and 3" false edge you can sharpen for back slashing. The 7 1/2" long and 3/16" thick blade is a modified 440B stainless steel with a tighter molecular structure than 440C so the steel is tougher. Holds a smoother edge, too. "Big belly" blade contour severs cord or line faster, does basic skinning and contributes to knife fighting balance. Black Polyamide handle with textured surface for gripping security. Overall length—12". Weight—12 oz. Comes with genuine issue, rigid olive green sheath with web belt hanger and tie-down cord. Very few of these available in the U.S. with the **actual Spanish Military issue EAGLE emblem on the blade and sheath**. #1-SW-156. . . . \$75

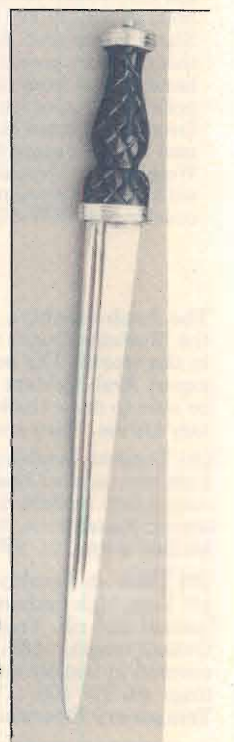
Bonny Scottish Dirk

The traditional standard among Scottish Dirks with all the trimmings. The 11 3/4" long dirk blade showcases crisp etchings of the Scottish foliage and thistle motif on both sides of the blade. Good grind lines, a 5" swaged false edge and a knurled pattern on the blade back also mark this dirk with distinction. **The classic ebony handle exhibits excellent carving** in a weave pattern dotted with ornamental nickel silver tacks. All particulars of this Scottish Dirk drawn from an 1880's original in our own collection. Made by our government contractor kukri supplier in India after 2 years of refinements. Now it's ready for any assembly of Scots decked out in full panoply. All the fittings—pommel, sheath tip and throat are made from highly polished nickel silver. The sheath is black leather, lined with wood. 17 1/4" long, overall. #3-SW-250. . . . \$79.95



Early Scottish Dirk

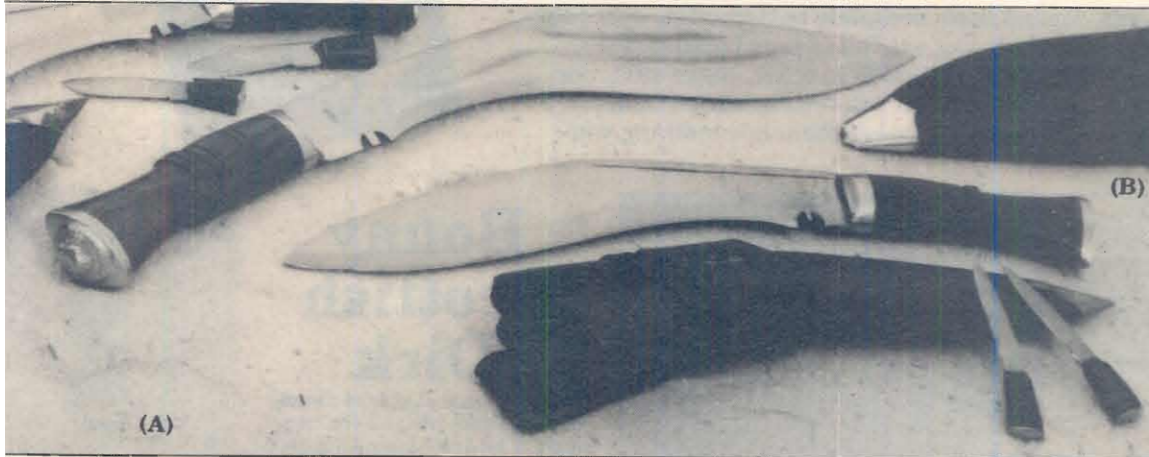
This pattern, of the type in widespread use from 1700-1750, made a definite impression on English hides during the 1745 Rebellion to restore the Stuarts to the throne. The 13" single edge blade is **hand made in Italy from Krupp CK55 steel** with two narrow fullers and is 1 3/8" wide at the hilt. The **dark wood hilt is carved in a diamond pattern**. The guard and pommel are wrapped in brass. Comes with leather scabbard with brass fittings. Weighs 14 oz. Overall length—18 1/2". #1-SW-621. . . . \$115.00





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New Kukri Patterns For Your Collection

Special Gurkha Regiments often carry a unique variation of the revered Kukri Knife design. Differences in blade length or markings, handle materials and ornamentation distinguish one regiment's kukri from another's. Kukris are excellent as jungle knives or for war. This versatility is one of the reasons these authentic Kukris are still prized throughout the world today. All Kukris in our catalog are either in use now or have seen official military use in the past.

(A) **Assam Rifles Kukri:** the weapon issued to the Gurkhas' Assam Rifles Regiment. A little fancier than other kukris, this kukri has a 13½" long blade that is double fullered. This blade also features the traditional religious notch that is symbolic of the trident (3 pronged spear) of Shiva, a war god. At a little over ¼" thick, this is a very powerful chopping blade. It's hand forged from high carbon steel. The polished, native hardwood handle is reinforced by a brass bolster and a brass pomel with a raised lion's head decoration. Weighs 1 lb. Overall length—18". Comes with regular wooden sheath with leather covering. #1-SW-174. . . . \$27.50

(B) **British Gurkha Regiment Kukri:** the Kukri is the national knife and principal weapon of the Gurkhas of Nepal, the country in which British Regiment Gurkhas are recruited. These current issue kukris are hand forged in Dahrain, India and made to order for the British government. The high carbon steel blade is just over ¼" thick and contains a thin groove along the blade back which represents the spear of Kali, a warrior female demon. Handle is genuine buffalo horn—reinforced by brass bolster and butt plate. Weighs 1 lb. Overall length—15½". Comes with issue wooden sheath with leather cover. #1-SW-173. . . . \$29.95

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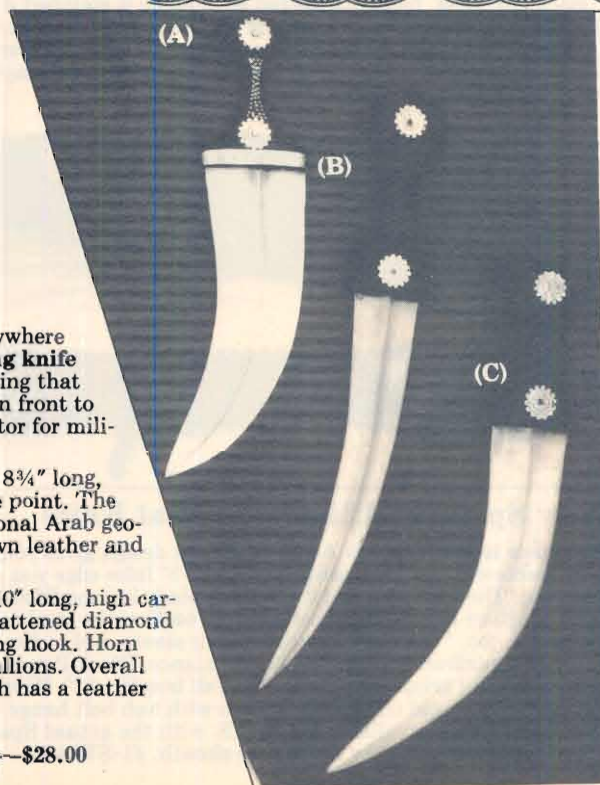
Arab JAMBIYA

The Arab Jambiya pattern dates as far back as the iron age. Adopted everywhere the Moslems fought so that the Jambiya became the most widely used fighting knife in the world. The hooking point perfectly suits the whirling style of knife fighting that expert Arab fighters perfected. Worn with the sheath hooked through the belt in front to be able to draw the knife suddenly. Made in India by the Government Contractor for military knives. Here are three of the most well known Jambiyas.

(A) **Yemeni Jambiya**—the most similar to the original Bedhouin pattern. The 8¾" long, high carbon steel blade has a ¼" thick, protruding mid-rib which reinforces the point. The customary, buffalo horn handle has nickel silver medallions tooled with traditional Arab geometric decorations. Overall length—13". The wooden sheath is wrapped in brown leather and leather lacing. #1-SW-154. . . Was \$49.95 Temporary Overstock Price—\$39.95

(B) **Turkish Jambiya**—this gently curving, 11" long, high carbon steel blade has a strong, central mid-rib. Traditional horn handle. Overall length—16¾". Wooden sheath is covered in leather and secured with brass fittings. #1-SW-160. . . Was \$45.00 Temporary Overstock Price—\$39.95

(C) **Persian Jambiya**—this 10" long, high carbon steel blade has a thick, flattened diamond cross section with a very strong hook. Horn handle has nickel silver medallions. Overall length—14½". Wooden sheath has a leather covering and brass fittings. #1-SW-161. . . Was \$45.00 Temporary Overstock Price—\$28.00



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The Legendary QAMA

The Qama, with its long, needle point on a 17½" long, double edge blade, is a deadly, close combat design that dates back to the infamous Roman short sword. As a fore-runner of the current Afghan Kindjal, the Qama was used with success by the Cossacks and northern Persians. Favored for quick pierce and slash movements, the Qama is still valued as an efficient fighting knife. It's carried in Iran today and is considered to be the national weapon of Soviet Georgia. Thick, polished buffalo horn handle scales surround a full scale tang. Overall length—22½". Weight—1 lb. 12 oz. Comes with metal-tipped sheath made of wood and covered with leather. #1-SW-170. . . Was \$38.00 **Temporary Overstock Price—\$29.95**



Gurkha Kukri

This Kukri is the best chopping weapon you can carry. Used with devastating effectiveness by the famous Gurkhas of Nepal in the Siege of Lucknow in 1857, in the trenches of WW I France, throughout the New Guinea jungle in WW II, and with distinction in the recent Falkland Islands battles. **Very versatile in the field.** Cuts tent pegs, splits firewood, clears brush, chops saplings, quarters a chicken, digs a hole—it even slices meat well! **The 12" blade is an impressive ¼" thick** with deep grooves and the traditional religious notch. This hand forged, high carbon steel blade takes a good, sharp edge without difficulty. Scale tang. Traditional, native hardwood handle. Standard metal butt plate. Overall length—17". Weight—1 lb. 6 oz. **Brand new! Genuine military issue to Gurkha Regiments in India.** Direct from the current government contractor. With each Kukri you'll receive a copy of the 8-page government contract and the ordnance drawing and spec sheet. Also comes with accessory knives and black leather sheath with native wooden lining. #1-SW-120. . . . \$23.95

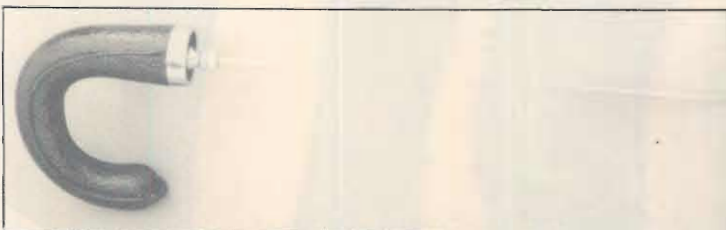
Officers Kukri

Powerful chopping knife issued to Gurkha Officers in India. The 9½" long, hand forged, high carbon steel blade is a hefty 3/16" thick. **The contoured handle is genuine buffalo horn.** Brass pommel and bolster. Overall length—14". Weight—1 lb. 3 oz. **Brand new** from the current government contractor. Comes with 2 accessory knives and the regulation sheath issued to Gurkha Officers. #1-SW-126. . . . \$25.95 *Comes with copies of the government contract, ordnance drawing and spec sheet and a verifying letter from the Colonel of the Regiment.*

Ceremonial Kukri

Beheads water buffaloes with a single stroke in traditional Gurkha sacred ceremony held just once a year. **Very scarce! Only one issued to each Gurkha Regiment in India.** Beautiful fit and finish, reflecting the extra care that a sacred ceremony deserves. Specially carved and polished native hardwood handle. The polished steel blade is a staggering ¾" THICK! **More than 2½ feet long overall.** Blade is 22½" long. Weighs 4lbs 6 oz. From a recent contract overrun made by the government contractor for Kukri knives. Comes with large leather sheath with brass fitting. #1-SW-133. . . . \$79.95

"All Weather Protection"™ Sword Umbrella



This "All Weather Protection"™ sword umbrella helps keep you dry—and safe from muggers! The sharp ten inch surgical stainless blade, hidden in the telescoping umbrella shaft, is always ready for use.

• **DEADLY PENETRATION:** This surgical stainless blade has a 2½" long, precision ground, tapered point, specifically designed for deep penetration (we drove one through a steel helmet with no deformation to the blade or point). This blade is spring tempered so that it can flex up to 30° and never break or take a set.

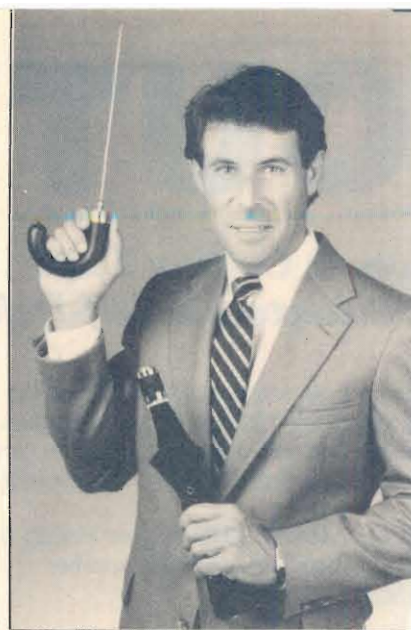
• **LIGHTNING FAST DRAW:** The blade and umbrella lock positively together, yet you can draw instantly—quick-as-a-wink! The sight of this deadly sword appearing in your hand as if by magic is enough to strike fear in the heart of any would-be mugger. It gives you peace of mind to know it's always ready when you need it.

• **QUALITY:** The special lock mechanism has 84 separate machining operations in manufacture. The classic nylon umbrella is the best obtainable—chosen from over 175 umbrellas made all over the world. Umbrellas of comparable quality (without the sword, naturally) cost about \$25.00 in fine stores.

SAFE TO USE: The umbrella mechanism is totally separate from the blade locks. Our exclusive double lock system prevents acciden-



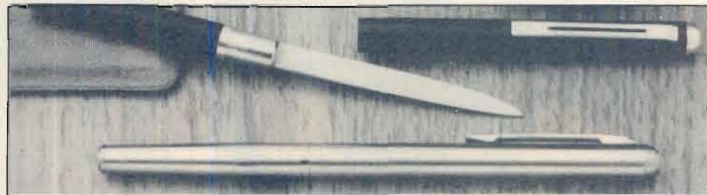
**A Secure
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You Can Open
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United States Patent #4,617,951, Oct. 21, 1986

tal openings—it keeps your self-defense blade hidden from all except those you choose to show. Of course, YOU can draw the blade instantly!

• **IT'S LIGHTWEIGHT:** Only 18 oz. Telescopes to just 18¼" overall. You can easily carry it in your briefcase, glove compartment, trench coat pocket, or comfortably in your hand. Finally, you can get a good looking, folding sword/umbrella combination at an affordable price. Comes gift boxed with black nylon storage sleeve. Instructions included. #3-SW-222. . . . \$49.95



Pen Daggers

Shirt pocket self-defense. Looks like an expensive pen until you unplug the blade from the pen cap in a flash. Instantly gives you a 2½" long, single edge blade that's equally effective for slashing as for sticking an attacker. **This triangular stainless steel blade is 3/32" thick** so you can apply strong downward pressure for scoring or scribing wood, cardboard, metal, etc. Serves well as a letter opener or an ice pick. It's quick draw availability makes it the knife you'll grab soonest for everyday cutting or scraping functions. Firm friction fit keeps the blade out of the way until you need it. 5½" long, closed.

Two choices. Black & Gold—#8-SW-383. . . . \$6.95
All Silver—#8-SW-384. . . . \$6.95

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- _____ #1-SW-156 Spanish Combat Knife @ \$75.00
- _____ #1-SW-621 Scottish Dirk @ \$115.00
- _____ #3-SW-250 Bonny Scottish Dirk @ \$79.95
- _____ #1-SW-174 Assam Rifles Kukri @ \$27.50
- _____ #1-SW-173 British Gurkha Kukri @ \$29.95
- _____ #1-SW-154 Yemeni Jambiya @ \$39.95
- _____ #1-SW-160 Turkish Jambiya @ \$39.95
- _____ #1-SW-161 Persian Jambiya @ \$28.00
- _____ #1-SW-170 Qama @ \$29.95
- _____ #1-SW-120 Gurkha Kukri @ \$23.95
- _____ #1-SW-126 Officers Kukri @ \$25.95
- _____ #1-SW-133 Ceremonial Kukri @ \$79.95
- _____ #3-SW-222 Sword Umbrella @ \$49.95
- _____ #8-SW-383 Black & Gold Pen Dagger @ \$6.95
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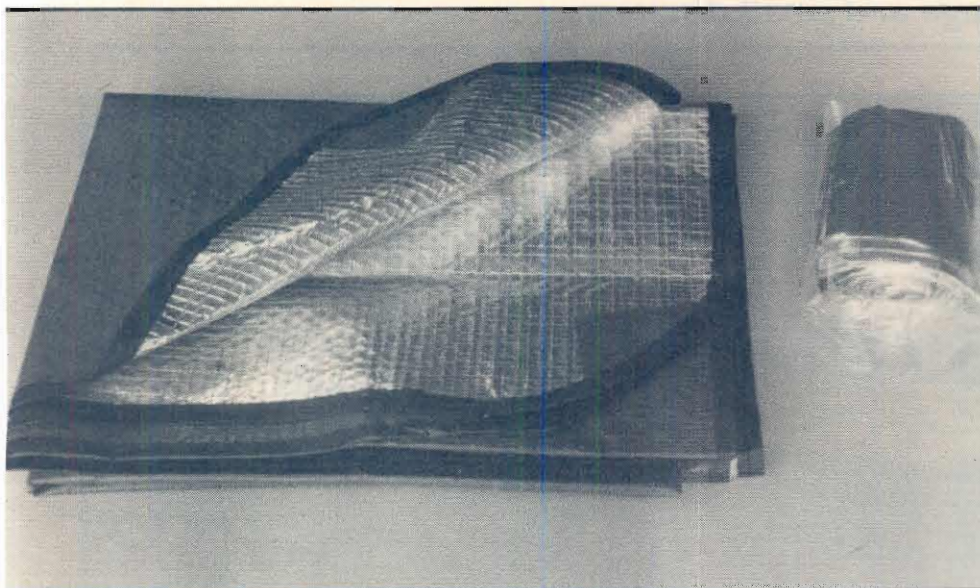
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NITRO-PAK:

Combat Casualty Blanket

Heavy duty reusable military covering. . .

Staff Report



The Heavy Duty, left, and Lightweight U.S. military Combat Casualty Blankets available from NITRO-PAK.

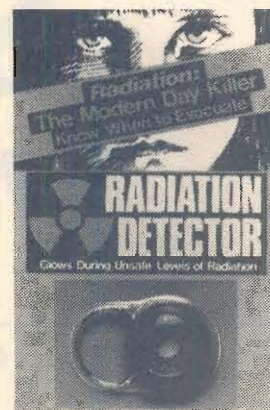


MADE for the U.S. military for combat duty, the Heavy Duty #1 Combat Casualty Blanket is rugged, light and reusable for years of emergency service.

Weighing just 10.5 ounces, this waterproof, four-layer aluminized plastic space-type blanket measuring 84 by 56 inches will reflect up to 80 percent of the body's heat. It is OD green on one side and silver on the other. It has nylon reinforced and sewn edges. It's used to prevent hypothermia and prevent shock in the military but it also serves as a ground cover, windbreak or for other purposes while camping or in any emergency — perfect for your backpack or emergency kit.

Regularly \$12.95 each, this blanket, one of several military blankets available from NITRO-PAK, is on sale for \$8.49 each. Order from **NITRO-PAK Storage Foods & Emergency Supplies**, Dept. ASG, 11018 E. Rosecrans Ave., Suite 300, Norwalk, CA 90650; (213) 929-4705. ●

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Hams, CBers, etc.:

Survival Via Radio

*Communications and help by radio for
large and small disasters...*



Mobile communications equipment allows hams to provide emergency contacts from just about anywhere.

by **Gerry L. Dexter**
PHOTOS COURTESY OF AIRL

HURRICANE Bonnie" swings toward the Gulf Coast. Weather forecasters warn of the storm but can't prevent it. Populations and property values running into the millions are threatened.

The "man in the street" checks his favorite TV weather person or keeps an ear on his favorite rock or country radio station. But other people, those armed with shortwave and/or scanner radio receivers, enjoy an added source of information that can usually provide an even earlier warning and, should disaster hit, can keep them filled in on what's happening — ahead of the usual media's pace.

In addition to the use of a scanner to pick up weather information and follow disaster relief efforts by official agencies and so on, scanner and short-

wave radio listeners are able to monitor two-way transmissions by citizen's band and ham radio operators to keep up to date on everything from a storm's current position to messages connected with rescue work afterwards.

Hams and CB operators are private individuals who own their own radio transmitting equipment. They often step in to help in emergency situations. In fact there are organizations of ham and CB operators which exist for just such a purpose.

Ham operators played a big role in the rescue efforts and communications after the Mexican earthquake a few years ago. They helped co-ordinate rescue and relief efforts and handled hundreds of personal messages from people seeking information about the safety of friends or relatives.

During the U.S. invasion of Grenada, ham radio transmissions from an American medical student there were the only source of information about what was happening. U.S. hams, working in co-operation with the State Department were, for a time, the only source of information. Even the regular media relied on hams for news during the first hours.

Smaller emergencies and life-threatening situations occur in cities and towns across the country all the time and ham operators and CB enthusiasts are always there to provide communications help.

That means that the survivalist concerned about situations which may threaten life or property can tune in on these transmissions and use them as an important source of information

on which to make decisions to act or not to act.

In order to be able to do this, though, something beyond the ordinary AM/FM radio is needed.

Two special types of radios are needed to give complete coverage. A communications receiver is a shortwave radio in desktop form (as opposed to the simpler portable type).

Communications receivers are able to pick up a greater number and variety of shortwave signals and tune in ham radio transmissions aired in the single sideband mode — a transmitting format which sounds like Donald Duck on an ordinary portable. A shortwave radio, however, won't cover the really high frequencies up in the very high and ultra high range. A "scanner" radio is needed to pick up signals in this part of the radio spectrum.

Communications receivers are made by such companies as Icom, Yaesu, Japan Radio Company and Kenwood and will cost between about \$400 to around \$1,400. Uniden (Bearcat), Regency and Radio Shack are among the top names in the scanner radio field, priced from around \$200 and up. Icom and Yaesu also make continuously tuneable VHF/UHF receivers which begin coverage where shortwave ends and run up to 1,000 MegaHertz!

Equipped with both a quality shortwave and scanner receiver the survivalist now has the tools to allow an end run around the usual mass communication information sources and will be able to get much closer to the original source of data about an emergency situation.

There are about 450,000 licensed ham radio operators in the United States. They enjoy their hobby in a lot of different ways from simple "ragchewing" (chatting) to communicating via radioteletype and the latest digital data methods.

A significant number of hams get involved in emergency communications and take an active part in one or more of the organized groups of amateur operators devoted to this aspect of ham radio. Regular on-the-air networks, in-person meetings, drills and other activities help keep hams, their operating techniques and equipment at the ready for whenever a disaster may threaten or strike.

Ham radio's tradition of this kind of public service dates back to before there were even broadcasting stations.

In 1913 early ham operators used their equipment to provide communications after a severe windstorm



Messages being prepared for the National Traffic System network at amateur station WJ0VI in Denver.

ravaged parts of the Midwest. Such public service activity counts for a lot as to why ham radio is even allowed. Since that first public service effort the system of public communications and emergency preparedness networks has grown and evolved into specific nationwide organizations that are highly involved.

The National Traffic System (NTS) is in operation on the ham radio bands for several hours every day, passing routine messages around the country, much of it at the request of private individuals who are not hams. In the process this daily activity also keeps the system honed for such times as its called on to handle vital traffic as quickly and efficiently as possible.

NTS is a system of area, regional and sectional networks which can pass messages within a particular division or from one to another via ordinary voice, morse code, radioteletype or other methods. Below the section level are numerous local networks which are active in most communities but may or may not be an official part of NTS.

ARES — The work of NTS is largely routine. Not so with the Amateur Radio Emergency Service (ARES). It stands ready to provide communications services to all levels of government, as well as to non-profit service groups such as the Red Cross.

Approximately 25,000 hams are involved in the nationwide ARES system which is organized at the local,

section and national level.

When an emergency occurs, the real action is on-scene, at the local level. The local emergency communications co-ordinator assumes full charge of all ARES activities in the concerned area.

ARES members on the scene will operate with mobile or portable two-way units allowing for close-up communications. Both ARES and NTS are sponsored by the American Radio Relay League (ARRL), the nationwide amateur radio organization based in Newington, CT.

Another organization, RACES — the Radio Amateur Civil Emergency Service — is sponsored by the Federal Emergency Management Agency (FEMA) and provides radio communications for civil preparedness purposes during civil emergencies. The intent, originally, was to provide emergency communications in the event of war but the duties of RACES have expanded and it's now tasked with helping provide communications to local or state civil preparedness agencies as well. It goes into action only upon the official request of a responsible state or federal official.

Once in operation ham operators who are part of RACES may not communicate with hams who are not members. If the president invokes his War Emergency Powers all hams except those who are involved with RACES, would have to discontinue operations for the duration. Many hams who are in ARES are also members of RACES.

Survival Via Radio

The Military Affiliate Radio System (MARS) consists of amateur radio stations at U.S. military installations around the world. These stations are heavily involved in handling "morale" messages between servicemen and their families, often via radio-telephone link-up. MARS stations are also available to provide additional communications facilities as needed for either military or civilian officials.

There are also hundreds of localized ham networks which may not be affiliated with any of the larger groups but which might still help out in a local emergency. Still other groups have prescribed listening duties and maintain a continuous monitoring watch on specified emergency channels so as not to miss hearing an "SOS" or "Mayday" emergency call should one be sent.

Citizen's Band operators (who do not need a license to operate), also play an important role in emergency communications and are also organized for this purpose. REACT (Radio Emergency Associated Communications Teams) is a national association of CBers (and a growing number of hams) dedicated to community assistance through communications.

REACT groups around the country can be found providing communications support for everything from a freeway accident to a walkathon for charity to more substantial and dangerous situations. Emergency communications help such as this is more and more appreciated by local governments with tighter and tighter budgets. The volunteer communications help relieves the need to lay on additional personnel in special situations. Hams and CB operators work at the lowest of pay scales: zero.

Once equipped with a shortwave communications receiver and/or scanner radio, where does one turn to find these volunteer emergency communicators?

Even experienced monitors often find that a certain amount of fishing around is necessary to find the action. If the emergency is purely local in nature check the VHF/UHF scanner bands set aside for amateur radio use. Mostly, this activity will take place on the "2 meter" band (146 to 148 MHz).

Some of the activity will be on simplex — that is both stations using the same frequency while others will be on two different frequencies, often



Handheld communications equipment helps provide the mobility needed for disaster or rescue operations.

through a repeater or slave station which picks up one transmission, amplifies and rebroadcasts it over a larger area.

Voice communications use the frequency modulation (FM) transmitting mode but there are many other transmission types used in this range, much of which will sound like so much noise to the untrained ear.

Six meters, from 50 to 54 MHz, is also used for a wide variety of communications types. Increased use is also made of the 1.25 meter band (220 to 225 MHz) and 70 centimeters (420 to 450 MHz). However, most purely local, short-range amateur voice transmissions will be heard on 2 meters, though the monitor will have to search the area for the transmissions of interest.

Short Wave — Ham radio on short-wave takes place within the following frequency segments:

- 1.8 to 2.0 MHz (the 160 meter band)
- 3.5 to 4.0 MHz (the 80 meter band)
- 7.0 to 7.3 MHz (40 meter band)
- 14.0 to 14.350 MHz (20 meter band)
- 21.0 to 21.450 MHz (15 meter band)
- 28.0 to 29.7 MHz (the 10 meter band)

Voice communications take place in only certain areas in each of these ranges (from 14.100 in the meter band, for example). Daytime reception will generally be best on 20, 15 and 10 meters while 80 and 40 will show increased activity during the evening

and nighttime hours. Normal, routine message handling goes on 'round the clock over hundreds of networks scattered throughout these frequencies. Emergency situations requiring long distances will likely take place on 20 meters while those of a more regional nature are likely to be conducted on 80 meters.

MARS stations are generally found at the outer edges of the bands and commonly operate beyond the normal frequency limitations.

If the RACES service is called into action hams involved will use specific frequency ranges: 1.8 to 1.825, 1.975-2, 3.5 to 3.555, 3.984 to 4.0, 7.097 to 7.125, 7.245 to 7.255, 14.047 to 14.053, 14.220 to 14.230, 21.047 to 21.053, 28.550 to 28.750, 29.450 to 29.650, 50.350 to 50.750, 52.0 to 54.0, 144.5 to 145.71, 146 to 148 and 220 to 225 MHz.

Citizen's Band channels are located between 26.960 and 27.450 MHz, near the top end of most shortwave radios. These operators, theoretically, are very restricted in the amount of power they can use and so normally should be heard only within short distances. However, some operators illegally use quite high power and this, coupled with the current improved high frequency transmitting conditions, often makes CB operators hearable over great distances.

It takes some practice, some time

Continued on page 61

Professional Locksmithing Tools

LOCKAID

Specifically designed to pick tumbler locks. Designed over thirty years ago to aid law enforcement agencies. Consists of tension wrench, three needles and Lockaid "Gun." Prices include a copy of the book "Lock Picking Simplified."

Lockaid \$59.95



PIX MODEL 13

This deluxe yet compact kit features 11 of the most commonly used tools. Comes in a slim cowhide leather case for discreet undercover operatives. As a special bonus, a 5 piece set of warder picks is included. A 16 piece set total. Also included, a copy of "Lockpicking Simplified." Receive all this at a Low price of:

PIX 13 \$39.95



PIX-QUICK MODEL A

These high quality picks feature new lighter non-breakable plastic color coded handles. Picks are of .022 blue spring steel... hardened to perfection. Eight piece set comes with handy see-through case with two extra pockets and a copy of "Lockpicking Simplified."

Model A \$19.95



PIX-QUICK MODEL B

Same color coded set as Model A. Only with deluxe 13 pieces. Price includes tension wrench and book.

Model B \$27.95

PIX-EZ All-In-One Pick-Set

100% American Made! As convenient to carry and use as a pocket knife! Only 4 inches long, half inch square, weighs under five ounces, works fast and opens pin and wafer tumbler locks quickly, with very little effort. Six tempered spring steel picks, tension wrench.

\$34.95



WKS PICKS

Made of the finest blue tempered spring steel this 5 piece padlock pick-set is a must in every locksmith's tool box. This set will pick open most every warder padlock made today.

\$9.95



Lockpicking Simplified	\$6.00
Complete Guide to Lockpicking	\$9.00
Improvised Lock Picks	\$9.95
Tubular Locks	\$7.95
Lockout and forced entry	\$7.95

Safe & Vault manipulation	\$9.95
How to Pick Pins & Wafers	\$8.95
Combination Locks	\$6.00
Keys by Impressioning	\$6.00

NEW ITEMS



ESP-13

This handy new pick set is the most popular set among professional locksmiths today. This kit consists of 12 different tools housed in a handsome black leather case designed for a shirt pocket. Included in the price, you receive a 5 piece warder key set and a copy of "Lockpicking Simplified." 17 piece set total.

ESP-13 \$42.95



KEY RING PICK SET



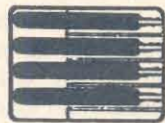
This unique design is ideal when low profile is required or to keep on your keyring for emergencies. Contains a tension wrench, three picks and the "Key Pick."

Key Ring Pick Set \$24.95

DOUBLE SIDED DISK TUMBLER PICKS

Set of 4 picks designed to be used on the most popular double-sided disc tumbler, showcase, cam and padlocks.

\$24.95



MINI PICK TUBULAR

The most effective tubular pick on the market, unlike the larger picks with long handles or screwdriver handles. The longer the tool, the more pressure needed which causes easy breakage. The advantage of the Mini Pick is it is so short, you only use your thumb and index finger. With a little practice this tool will open a tubular lock in less than a minute. A. Your Choice: (1) Center (2) Offset left (3) Offset right; B. "Segal" 8 pin tubular; C. 5-pin Tubular; D. 6-pin Tubular; E. 8-Pin Ace.



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This tool was designed to decode the exact combination of a sesame padlock without damaging the lock. Detailed instruction included.



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MD16

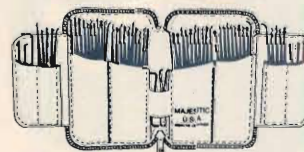
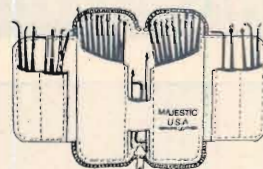
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Federal Ordnance:

Springfield M1903 Rifle

Original .30-06 bolt-action U.S. military issue. . .



Staff Evaluation

FEDERAL Ordnance, Inc., of South El Monte, California, recently acquired a small number of original U.S. military Model 1903 rifles from suppliers in several foreign countries.

These were rifles given to foreign governments as part of U.S. military aid. Since they are now for the most part obsolete for military purposes, they have become surplus items, and Fed Ord has acquired about 100 of these rifles made by Springfield Armory, Remington and Rock Island Arsenal.

The rifles were refurbished and were being sold for between \$260 and \$300 apiece. Most of the rifles were already sold at the time this was written but we are informed that Fed Ord may obtain more in the near future.

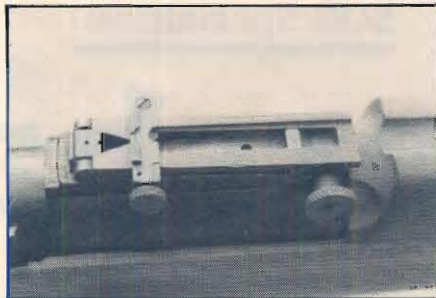
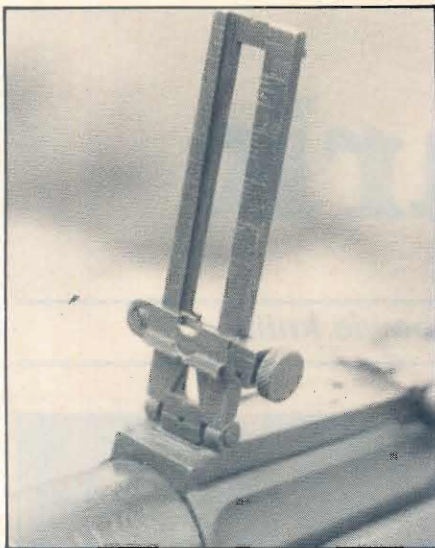
We were loaned one of the Springfield-made M1903 rifles for an evaluation and tested it out with several military and commercial loads of .30-06 ammunition.

Millions of the M1903s were made and were in service with U.S. armed forces in both world wars as well as with our own and other military forces in other conflicts around the world.



Recoil was easily manageable with all ammunition loads fired in the M1903

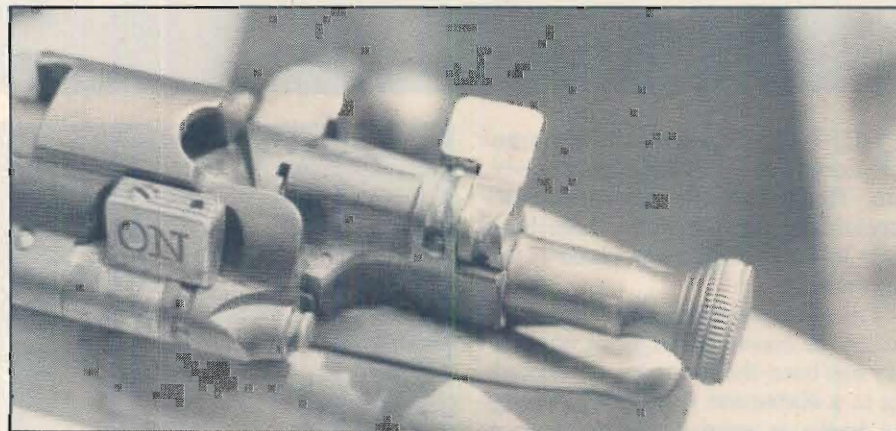




LEFT & ABOVE — The rear leaf sight has several apertures and is adjustable for distances of up to 2,700 yards and for windage. The leaf sight can be lowered and a conventional rear notch used for ranges of around 100 to 200 yards. Front sight is a blade.



A compartment in the buttstock holds cleaning gear.



Besides the safety at the rear of the bolt mechanism there is also a cartridge cutoff lever on the left rear of the receiver which when in the "ON" position, shown here, prevents feeding of cartridges from the magazine, allowing only single-shot firing. When pushed all the way down to the "OFF" position, cartridges can again be fed from the magazine into the chamber by working the bolt. To remove the bolt for cleaning, the lever is moved to the middle position (between "ON" and "OFF").

At a public shooting area we tried out four different loads of ammo in the rifle: some Colombian military ball; Norma 180-grain soft point round nose; Winchester 180-grain Silvertip expanding; and Federal 165-grain boat-tail soft point. The Federal load is the favorite .30-06 load of ASG contributor Jim Thompson, who calls it "the best .30-06 ammunition in the world."

Firing at ranges of from approximately 200 to 400 yards, we had good results with all the ammunition. Although the Colombian ammo, provided by Fed Ord, looked less than mint condition, we experienced no misfires and it was quite accurate. We were not shooting for pinpoint accuracy here, but we did feel that we had excellent results with the Federal load, and the other commercial cartridges performed well in this rifle.

This would be a fine rifle to own for hunting, sporting or survival purposes. The hard hitting, accurate .30-06 round is still a favorite of hunters and some competition shooters and lots of ammunition in this caliber is commercially available. With more military surplus weapons and ammunition coming into the country from overseas, ammunition and spare parts should be more readily available for the M1903. ●

M1903 Springfield Rifle: Tech Specs

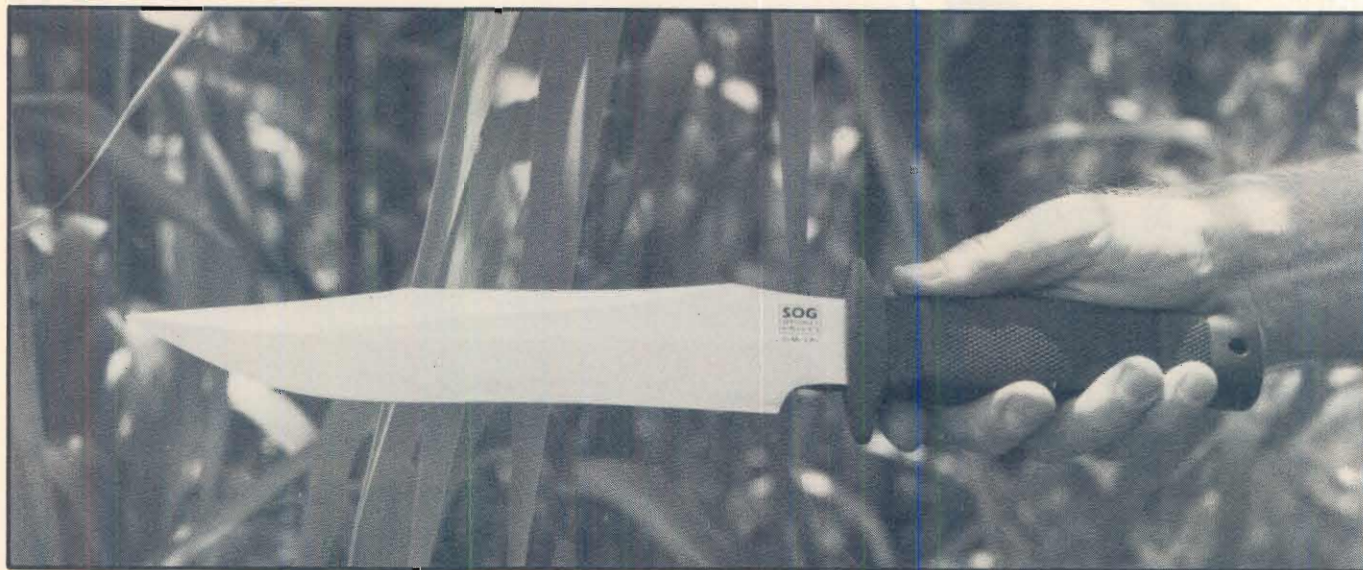
Caliber30-06
Overall length	43½ inches
Barrel length	24 inches
Weight empty	9 pounds
Magazine capacity	5 rounds
Action	bolt action
Sights	front blade, rear leaf adjustable for windage, elevation with range markings to 2,700 yards
Sight radius	22½ inches
Importer	Federal Ordnance, Inc., Dept. ASG, 1443 Potrero Ave. So. El Monte, CA 91733; (818) 350-4161

SOG Specialties:

Tigershark

High quality, very handsome, state-of-the art bowie knife. . .

Staff Evaluation



SUPERIOR design — Uncompromised quality — Practical application. That's how the people at SOG Specialties summarize in describing their latest "world class blade"— the Tigershark.

"The most pivotal piece of American cutlery to evolve throughout our history has been the bowie knife," according to a statement from SOG. "Today the bowie is once again enjoying a 'favorite son' image, and it is being produced as never before in its long and glorious history."

The Tigershark's 9-inch, .250 blade with its exquisite grind lines is produced from select high carbon stainless steel which has been custom smelted and rolled for SOG. Heat treated to a Rockwell hardness of 55-57, this bowie is easily honed and comes razor sharp out of the box.

The molded Kraton handle surrounds the knife's tang and provides security and comfort in handling.

An elegant and very strong black leather sheath comes with each knife. And each knife carries the SOG lifetime guarantee for complete customer satisfaction.

We took one of the first available





The Tigershark worked well on bamboo stalks. Its heavy, very sharp blade cut through the bamboo like it was butter.

Tigershark's with us to the boondocks for a little workout and found it to be an outstanding piece of cutlery. It cut through stocks of bamboo like they were butter with no noticeable loss of its razor edge. The sheath is very well made and quite comfortable to wear. The knife is held securely in the sheath but can be produced instantly when needed.

High quality, good looks, durability, comfort, versatility. These are the words that come to mind when we think of the Tigershark. If you like bowies, you'll love this one! ●

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Atlanta Weekly Jan 31, 1988

SIOP:

World War III

The nuclear war fighting plans of the United States. . .

By Michael Pietrantonio

THE citizens walking in Red Square could hardly believe what they were seeing. To the delight of the Soviet citizens and the dismay of both U.S. and Soviet security officers, the U.S. president and the Soviet Communist Party chief waded into the crowd smiling, shaking hands, and talking one on one with the astonished Soviet citizens. It was to say the least one of the high points of President Reagan's historic trip to the Soviet Union.

But even here, amid the congeniality and warmth so obviously felt by the president and the Soviet citizens he encountered, stood a reminder that both sides would, if they felt sufficiently threatened, unleash the full might of their nuclear arsenals against one another.

Standing behind the president, never more than a few feet away, close enough to be unintentionally included in the wire-service footage of the event, was a young man who held a briefcase. Despite his civilian clothing his bearing was obviously military. He was in fact one of three military officers whose job it is to safeguard that briefcase and to be sure that it is never more than a few feet from the president of the United States.

The briefcase is known as the "football." Within it are approximately 75 pages of plans and National Security Agency (NSA) codes. The plans present in detail the options a president would have should a conflict escalate to a nuclear level. The codes, known collectively as the "Gold Code," are changed daily by the NSA. They are the key by which a president would order a nuclear attack.

The 75 pages within the "football" are a distillation of the single most highly classified military document within the U.S. government. This document is known as the Strategic Integrated Operating Plan, SIOP. It is the nuclear war fighting plan for the United States. So sensitive is the SIOP

that it has been given its own security classification — ESI, Extremely Sensitive Information.

As long ago as 1961 when the first SIOP, known as SIOP-62 was created, nuclear planners realized that the growing number of nuclear weapons, delivery systems, and Soviet targets, required a single coordinated plan for the most efficient use of their atomic arsenals.

From 1945 to 1960 U.S. nuclear strategy was based on the doctrine of "massive retaliation" against the enemy's cities. There existed for the President during those years no other options for fighting a nuclear war except "pushing the button," that is, giving the order for a full scale nuclear attack.

In 1961 President Kennedy, realizing that massive retaliation was no longer practical, since there was no way to insure that the continental U.S. would not be hit by a retaliatory strike of Soviet nuclear weapons, called upon the Pentagon to provide a series of options for the use of U.S. nuclear weapons other than the all or nothing option then available. The result was the creation of SIOP-62.

Besides giving the president more flexibility in the use of nuclear forces, SIOP-62 also moved the U.S. away from the deliberate targeting of enemy cities (except as a last resort). SIOP-62 contained the following targeting options from which the President could choose: 1) Soviet strategic forces — this would involve attacking Soviet missile silos, bomber bases, and ballistic missile submarine bases; 2) Soviet air defense centers located away from Soviet cities — this option was designed to open up corridors for future attacks by U.S. bombers; 3) Soviet air defense centers near cities — this was meant to be an obvious escalation from the second option. U.S. forces would still try to minimize civilian casualties, but would be signalling the Soviets their willingness if necessary to hit Soviet cities;

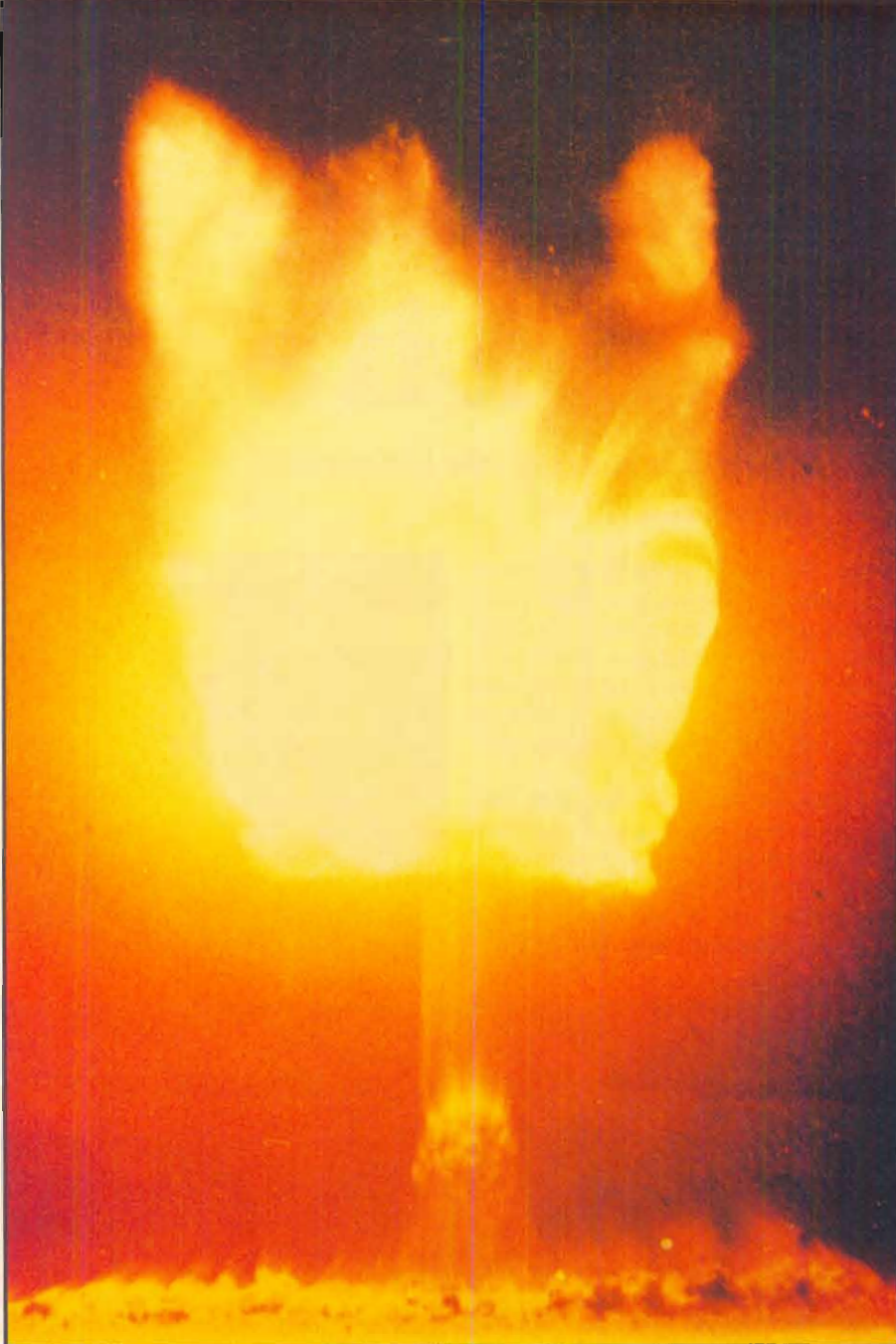
4) Command and control centers — This would be an effort to destroy the military leadership of the Soviets in the hopes of disrupting the Soviet chain of command; 5) Spasm attack — this option was a return to "massive retaliation," to be used as a last resort.

At the time of SIOP-62 the U.S. had approximately 18,000 nuclear weapons and had identified about 20,000 possible targets both within and outside of the Soviet Union. Today the SIOP target list contains over 40,000 potential targets and the U.S. has about 25,000 nuclear weapons.

The nuclear weapons within the U.S. arsenal fall into two categories, strategic and tactical. Strategic weapons are defined as those which are intended to be used against the homeland of the enemy. Tactical weapons are usually, though not always, of smaller yield than strategic weapons and are intended for use in "limited" battlefield situations. About 13,000 U.S. nuclear weapons are allocated for a strategic role. Of the remaining weapons, about 9,000 are assigned a land tactical role and about 2,000 a sea tactical role.

The U.S. Army, Navy and Air Force have tactical nuclear weapons at their disposal, but only the Navy and the Air Force are assigned strategic weapons. The Air Force allocates its strategic weapons between long range bombers and its fleet of ICBMs. Most of the Navy's strategic nuclear weapons are onboard its fleet of "boomers," or strategic ballistic missile carrying submarines. All three military branches are also assigned nuclear weapons and delivery systems which can be used interchangeably with strategic or tactical roles.

With the large numbers and types of nuclear weapons available to planners, along with their distribution among differing commands and the vast number of potential targets, the modern SIOP is a far more complex warplan than was SIOP-62. In addi-



"If you want peace, prepare for war." SIOP is an attempt to do just that (U.S. Army).

tion, current generation weapons technology has by itself multiplied the options available to planners. For instance it is now possible to target individual installations such as buildings, railway yards, port facilities, etc., with smaller weapons which will minimize the collateral damages to the surrounding area. This is possible because of the highly accurate guidance systems on a growing proportion of the nation's stockpile of warheads. Most U.S. ICBMs have multiple warheads with accuracy in the range of 400 to 500 feet. Nuclear planners now speak, only half in jest, in terms of which side of the street do you want the warhead to land. As accuracy increases the need for large megatonnage warheads decreases so that, in theory at least, one need not destroy an entire city simply to take out a port facility or an anti-aircraft installation a few miles from the city.

Planning the SIOP — In creating the options within the SIOP planners must take into account far more than the simple logistics of the available weapons, delivery systems, and targets. They must try to plan each attack option not only for the purely military results it must achieve, but more importantly for the political and psychological effects which the chosen option is intended to bring about in the enemy. Planners must always keep in mind that nuclear weapons are primarily political, not military, weapons. Their use in any fashion (except for the "spasm" attack option) will always be intended to deliver to an enemy a message of political will. This is why every country with nuclear forces places the ultimate authority for their

Continued on page 62



The Pershing 2 was primarily designed for a tactical nuclear role. However, its range allows it to be used in a strategic role if needed. SIOP planners must take into account the dual role capability of such weapons when assigning individual weapons to targets (Department of Defense).

Crabs, Lobster, Clams, etc.:

Harvesting Marine Life

Tidal areas provide an impressive grocery list for survival . . .

By Jim Meuninck

A person could survive, perhaps even thrive on seaweed, octopus and sea urchins. But there are other creatures in the tidal pools, and just beyond: crabs, lobster, mussels, clams, oysters and more. Here are some harvesting tips.

Crabs may be caught in several ways: 1. With bait, like a piece of raw chicken on a string; 2. Sneak up and grab them with your hand; 3. Set wire traps and bait them with fish heads, octopus entrails or other organ meat.

A chicken wing tied to a piece of

string will catch crabs legally from May through September. The crustaceans grab onto the meat with their pinchers and won't let go — pull in the string until they are close enough to grab, (or scoop them with a hand net) then stuff the animal into your collecting bag.

In bountiful areas, at slack tide, you can often swim up and grab the crab from behind (avoid a frontal approach into the animal's claws). Tools needed are: a thick pair of gloves, wet suit, weights, collecting bag, mask, fins,



Commercial blue crab traps with marker floats.

Look for oysters in mud flats where a freshwater stream empties into protected areas.



snorkel and measuring tool (states have legal size limits).

Dungeness crab may be taken in California, Washington, and Oregon. They have protective coloration that blends in with the bottom structure, so you must look carefully. During the waxing and waning of the tide, these crabs burrow under sand, but at slack tide they get up and start foraging. This is the best time to snorkel for them.

Simply, hover on the surface in clear water and wait for a crab to make its appearance. Then dive and grab.

The preferred method of hunting is to remain motionless about 8 or 10 feet above the bottom. Look for movement. Then take only males; leave females to breed — thereby securing your crab hunting future (fishing regulations illustrate sexual differences between crabs).

Another productive method is to trap crabs in wire cages. These "pots" have

one or two funnel like entrances where the crabs crawl in, but can't crawl out. As mentioned earlier, use some wire to attach a piece of raw, bloody bait inside the trap; this lures the voracious arthropods into the "pot."

Set the traps on the bottom, along a stretch of protected beach that slopes gently toward the abyss.

In order to find your trap again, attach it to a float. Make certain the line has enough slack so your float doesn't disappear during high tide. Drop traps at varying depths — 20, 40 and 60 feet. Commercially available traps are weighted so the tides, currents, and wave action don't drag them away.

Stone crabs, blue crabs, king crab and spider crabs may be taken as described above. Or you may simply fashion a nine-foot square net that is baited with leftover food (clip the food parts in the center of this open net). Then lower the net to the sea floor

and allow it to rest for an hour. Soon crabs will be chomping on the leftovers. The voracious scavenger won't scamper away or let go.

Lobster — Survival dining on lobster? Sounds good to me. Here's how you do it.

In October, the West Coast lobster diving season opens. For a few brief months divers and snorkelers lift thousands of lobsters from the tidal zone's deep fringe. A rare 20 pounder may be 70 years old. More commonly; two, three and four pounders are taken.

Like dungeness crabs there is a size limit on spiny lobsters (*Panulirus interruptus*) so you will need a measuring gauge. Also have aboard a fishing license... and remember the catch limit in California is seven per day (check local laws as they may change).

A snorkeler or scuba diver must take lobsters with his hands only. You don't have to dive for lobster, surface marked

(Continued on page 66)



Dungeness crab traps are weighted and corrosion proof. Dungeness crabs are good eating, but watch out for the claws.



Lobster and crab may be taken by a patient snorkeler stalking at slack tide.

II, TR:

Night Vision

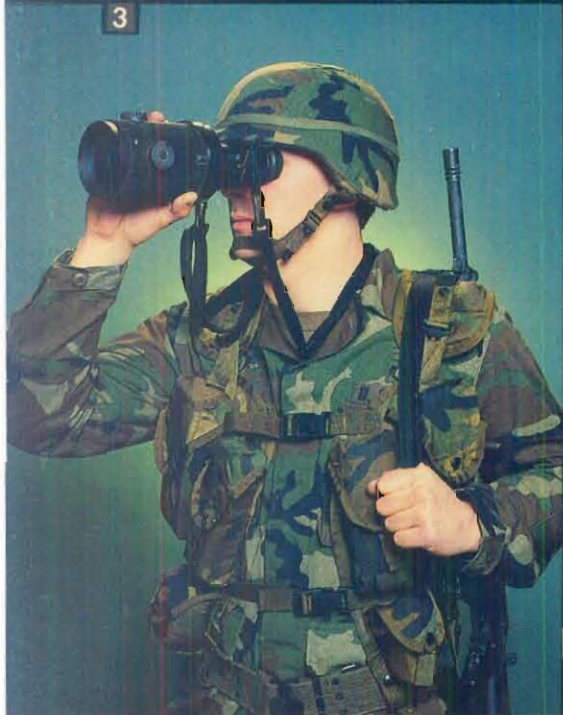


1. Soldier with Baird Corporation night vision goggle and infrared aiming light mounted on an M16 rifle.

2. The Baird night vision goggle.

3. The Baird four power night vision binocular.

4. Soldier using a first generation AN/PVS-2 night vision sight mounted on a rifle. These early systems were bulky and cumbersome.



LOOKING like one of the characters in the bar scene from *Star Wars*, the pilot flies his helicopter without any illumination other than that offered by the night sky.

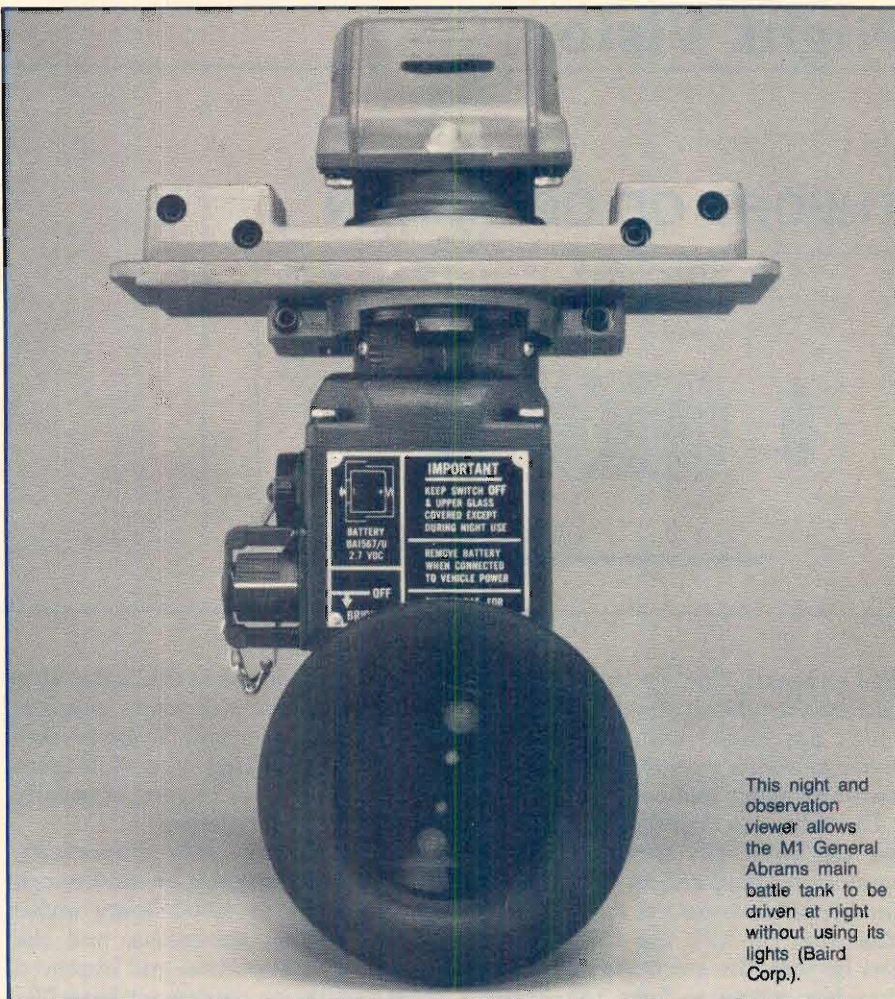
The enemy on the ground knows a chopper is operating in the air above because of sound, but where? The door gunner is able to fire on the enemy before detection, knocking out the emplacement without a return shot being fired.

Night vision goggles worn by all the crew members made the stealthy attack possible. Now night vision is not only available to the military, but to anyone who has to see, and work, in the dark.

Night vision really began with the searchlights used to illuminate the battlefield. In reality, bonfires and flares used for centuries were a primitive form of night vision. In the waning days of World War II, infrared (IR) systems appeared as a covert way to observe the enemy at night. All these systems had a drawback. Since they were "active," the light could be seen by both the good and bad guys alike, albeit in the case of IR systems, they needed special IR goggles.

The current night vision equipment is "passive" in that the enemy has no way of knowing when it is being used. It improves visibility under very low light conditions by amplifying the faintest reflections from the moon and stars. Thus it goes by the technical name "Image Intensification," or II for short. Since available light is intensified, it does require a minimum amount of light that can be amplified and therefore will not work in complete darkness.

Image intensifiers convert photons that comprise a dim image into a photo-electron image, amplify this image, and then change it to a visual image that can be seen by the human eye or a camera. II devices receive the dim light reflected from objects on a photocathode which is made of a photosensitive material, normally a multi-alkali substance. The light multiplication comes when the photocathode emits electrons in proportion to the amount of light striking it from each point in the scene being viewed. The emitted electrons are accelerated by an electric field on their travel between the photocathode and a phosphor



This night and observation viewer allows the M1 General Abrams main battle tank to be driven at night without using its lights (Baird Corp.).

Seeing through the darkness...

screen. The phosphor screen converts the electrons into a visible image that can be viewed through an eye piece. The image on the screen is formed by the electrons striking it, with the intensity at each point of the screen being proportional to the number and speed of the electrons striking the point.

The gain, the amount by which the light is amplified, is an important factor for describing the capabilities of a particular II device. The gain is simply the ratio of the amount of light striking the photocathode to the light emitted by the phosphor screen. Even the simplest II devices have gains of 10,000 or more. Thus the lighting of a given scene is increased 10,000 times or more.

The early "first generation" II devices — II equipment has been used by the military since the mid-1960s — consisted of several, usually three, of the basic devices described above mounted in series. The light from the first phosphor screen is directed to the second photocathode and so forth. A typical

three stage, first generation II device had a gain of about 40,000.

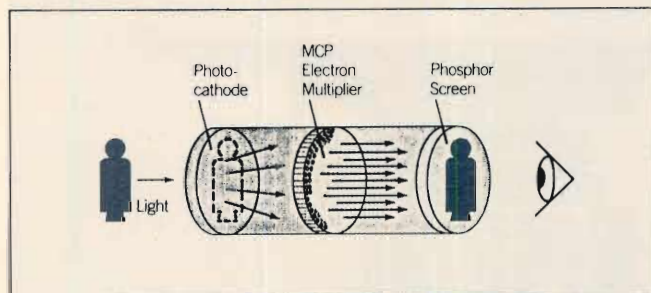
Their chief disadvantages were their weight and bulkiness. Also they were very susceptible to "blooming." Blooming occurs when the II receives light from a bright light source such as a weapon's flash on firing or a vehicle's headlamps. In order to protect the device's sensitive electronics and optics, the II's power supply is automatically shut off and the device is not usable until the offending light source is gone.

Second Generation — The "second generation" intensifiers were designed to overcome the shortcomings of the initial night vision equipment. Their miniaturization was possible because of the microchannel plate, or MCP. The MCP, located between the photocathode and phosphor screen, is a very thin wafer made with millions of microscopic glass tubes.

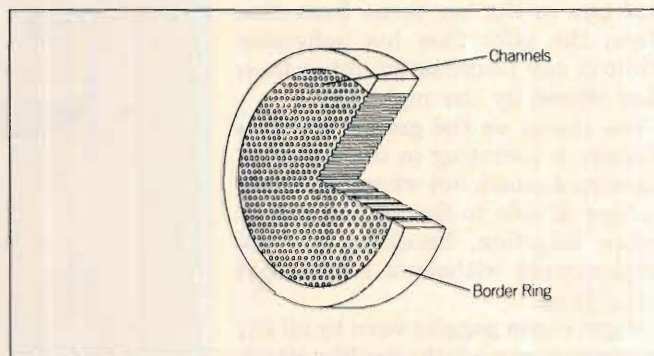
A quarter-sized MCP would be about one-third the thickness of a quarter and contain about two million indivi-

Night Vision

THEORY OF OPERATION



FUNCTIONAL ILLUSTRATION OF MCP IMAGE INTENSIFIER OPERATION



MCP SCHEMATIC REPRESENTATION

dual channels. The electrons passing through the tubes strike the tube walls which are coated with an emissive material which results in even more electrons being emitted.

The tubes are slightly tilted so that the electrons will strike the walls many more times and an even greater number of electrons are emitted than otherwise. As with the first generation devices, the electrons strike the phosphor screen to form the image. However, only one stage of amplification is now needed making much smaller equipment possible.

In fact, second generation devices have become so small that they can be mounted on night vision goggles that can be comfortably worn by a helicopter pilot flying at night or a soldier fighting at night. Usually an inverter is included which twists the image 180 degrees so the user sees the picture upright rather than upside down.

The second generation devices also don't have the blooming problem. Now, while individual channels might become saturated by localized bright lights, the whole system does not shut down. A "halo" might appear around the image of bright light that causes some degradation of the contrast.

Third Generation — The "third generation" equipment is very similar to the second generation devices. The main improvement is a gallium arsenide photocathode which is about three times the photosensitivity of the multi-alkali materials used on the first and second generation photocathodes.

While the experts do not see a fourth

generation II device in the foreseeable future, there are still many improvements that can be made. These are centered around making the devices more efficient and lower in cost, especially the cost of manufacture.

Lifetimes are also important, though second generation devices can operate 2,000 to 4,000 hours under proper lighting conditions, and the simple first generation and improved third generation equipment have lifetimes of more than 10,000 hours. One important consideration is to make the device as "soldier proof" as possible so it can survive combat conditions and rough handling.

Image Intensification should not be confused with Thermal Imaging, or TI, another approach to seeing in the darkness. TI uses the heat generated, or contained, in all objects.

A sensitive TI "camera" can convert the heat image of vegetation, people, machinery, etc., into a visible image on a screen. TI is more sophisticated than II and unlike II, can be used in daylight. It is especially useful in penetrating almost any type of camouflaging.

While image intensifiers were developed primarily to help seek out and destroy the enemy, they have found many other uses in science, security and law enforcement. Besides typical uses like nighttime patrols, weapons aiming and detecting enemy infiltration, night vision has made it possible to fly helicopters and drive vehicles without any telltale lights that would aid the enemy.

They can be attached to television and photo cameras to record images.



AN/PVS-7B night vision goggle compatible with M17 gas mask.

Thus they can be used for security systems, night photography, nocturnal entomology, and even give night vision to people who are afflicted with retinitis pigmentosa (night blindness).

The range of night vision equipment includes telescopes, goggles, pocket scopes, binoculars and weapon sights. Even the simplest first generation pocket scope would make a police officer's job safer if he or she could see down that dark alley before continuing in pursuit of an armed criminal. ●



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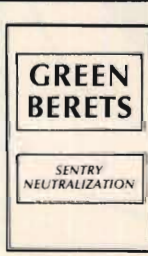
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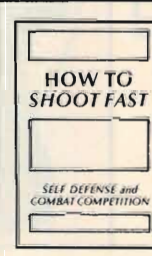


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Glock 17 and 19 Pistols

Continued from page 30

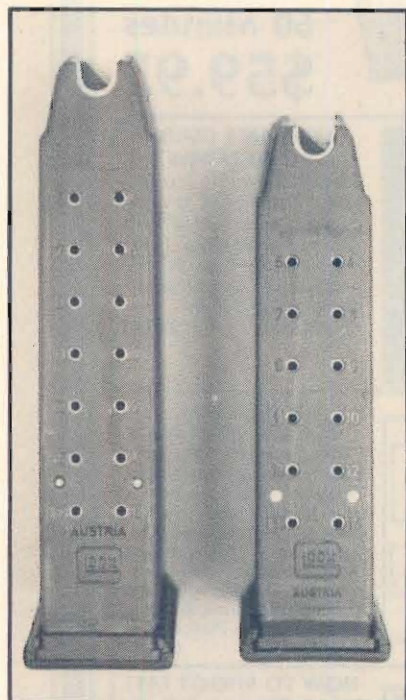
Glock pistols are advertised to fire all types of commercial or military 9mm NATO ammunition without problems. We took the Glock 17 and 19 guns we got from Beach Cities Armoury and went to a local gun range with

some PMC full metal jacketed, Winchester Silvertip hollowpoint and Remington jacketed hollowpoint ammunition (all 115-grain bullets). We were amazed at how well these guns shoot. Firing from a rest at targets 25 yards

away, and after only a few rounds fired to familiarize ourselves with the weapons, we shot a 2-inch group with the Glock 19 (PMC FMJ ammo) that included three hits in one hole, and a 1 7/8-inch group with the Glock 17 (Rem. JHP ammo). I have to say this is the best shooting I have ever done or seen with 9 mm weapons. With a little more practice I have no doubt we would have reduced the size of our groups to 1 inch or less. After handling and shooting these guns, it's easy to see why virtually everyone who's done so has been so impressed with them. The Glock pistols are without question among the best 9 mm handguns available anywhere in the world today.

Anyone interested in having a high quality, reliable, tough and effective 9 mm handgun should consider the Glocks.

See one at your gun shop or contact Glock, Inc. ●



Glock 17 17-round magazine, left, and Glock 19 15-round magazine. An optional Glock 19 magazine holds 17 rounds and extends only one half-inch below the pistol butt.



The best group obtained with the Glock 19, above, was this 2-inch group that includes three shots in one hole, and the Glock 17, below, was this 1 7/8-inch group.



Glock 17, 19 Pistols: Tech Specs

	Glock 17	Glock 19
Caliber	9 mm NATO	9 mm NATO
Action	short recoil-breech locked, semiautomatic	
Length overall	7.4 inches	7.25 inches
Barrel length	4.49 inches	4.02 inches
Overall height	5.16 inches	4.92 inches
Sight radius	6.5 inches	5.98 inches
Barrel profile	hexagonal, R.H. twist	9.84 inches
Weight empty	21.9 ounces	21 ounces
Weight fully loaded	31.4 ounces	29.54 ounces
Trigger pull	about 6 pounds 8 pounds optional	
Safeties	manual trigger safety, passive firing pin block and drop safety	
Sights	Patridge style front with white dot, rear square notch with white outline adjustable for windage, elevation	
Finish	matte black	
Price, suggested	\$500	\$500
Distributor	Glock, Inc., Dept. ASG, P.O. Box 369, Smyrna, GA 30081; (404) 432-1202	

Field stripping is done in seconds without tools

Survival Via Radio

Continued from page 46

spent in advance monitoring of the appropriate frequency groups in order to become acquainted with what areas of the country can be best heard on what frequency bands and at what times of the day or night (and that will vary depending upon the listener's location, too). The only real way to gain a feel for things is to do a lot of listening.

A good way to be better prepared to follow emergency communications locally is to make contact with local ham or CB operators. They are likely to know the specific channels which would be put into use in a local emergency. Advance knowledge of these frequencies will allow the monitor to tune in on scheduled practice activities which most such groups conduct.

Some aids will also be of assistance when monitoring during an emergency. The American Radio Relay League publishes the *ARRL Net Directory* for \$1 from the League in Newington, CT 06111. *The World Ham Net Directory* is another listing, cross-referenced by name, frequency and day/time. It's \$10.95 from Tiare Publications, P.O. Box 493, Lake Geneva, WI 53147. Newcomers to shortwave radio monitoring may want to pick up a copy of *So You Bought a Shortwave Radio!* available for \$7.95 from Tiare. Those involved with co-ordinating such things as relief and rescue work during emergencies can contact the ARRL about obtaining a copy of the *Emergency Co-ordinator's Handbook*, which explains how ham operators can help with emergency communications needs.

Monitoring the work of ham and CB radio operators during an emergency situation can, at its most mundane, simply provide an interesting listening experience. At its most important, it can involve the listener directly on those occasions where a monitor has been able to assist even without being able to transmit (hearing an emergency call no one else caught and telephoning the proper authority, for example). Monitoring also has the capability of providing the survivalist with information essential to maintaining the safety of his or her own life and property and those of loved ones. For that reason alone, many monitors feel the pursuit is worth the effort, the time and the expense. ●

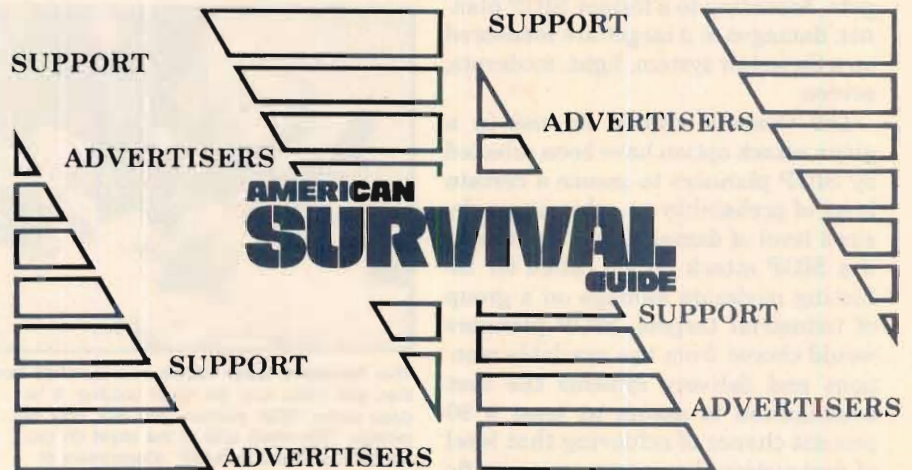
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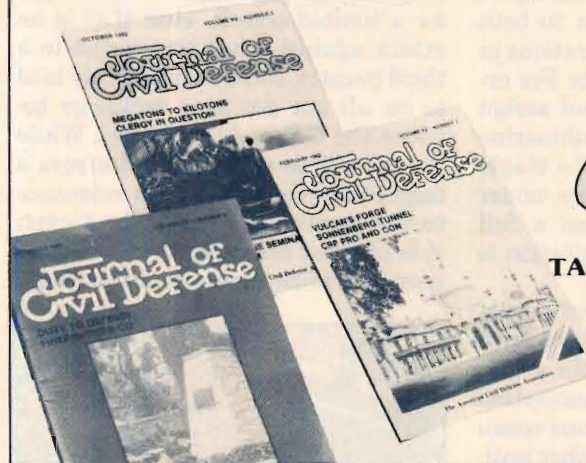
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World War III

(Continued from page 53)

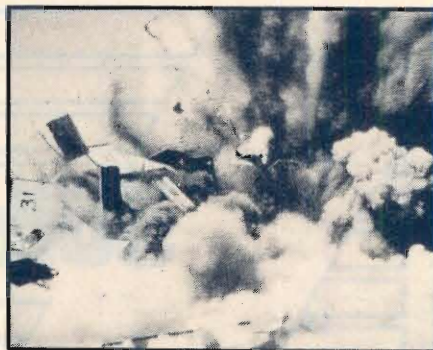
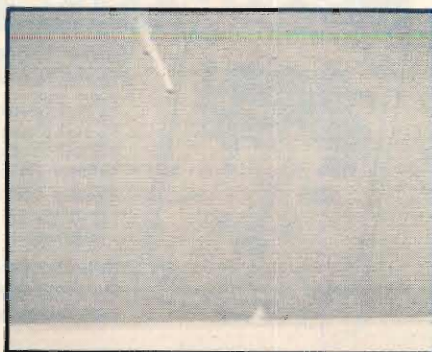
use in the hands of its political leadership, not in the hands of its military. This of course complicates immensely the job of those responsible for creating the SIOP.

Planning for each SIOP attack option starts out with the logistics involved in insuring that the attack is a military success. Planners must determine the most effective combination of weapons and delivery systems to achieve a desired degree of damage on the targets. According to a former SIOP planner, damages to a target are measured on a three-tier system, light, moderate, severe.

The weapons chosen for use in a given attack option have been selected by SIOP planners to insure a certain level of probability in achieving a desired level of damage. In other words, if a SIOP attack option called for inflicting moderate damage on a group of industrial targets, SIOP planners would choose from the available weapons and delivery systems the best combination to assure at least a 90 percent chance of achieving that level of destruction. In assigning a specific weapon to a specific target the SIOP planner will consider the capability of each weapon (its range, speed, yield, and reliability) against the characteristics of the intended target (defenses, degree of "hardness," time restrictions, and overall military importance).

SIOP planners are subject to both tactical and political considerations in allocating weapons to targets. For example, a SIOP planner cannot assign a strategic ballistic missile submarine the task of destroying either a single or a small number of targets under any SIOP option other than a full scale spasm attack. This limitation is both tactical and political.

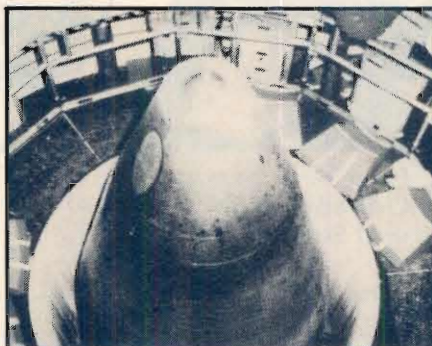
Tactically, a ballistic missile submarine is virtually invulnerable until it fires its missiles. However, the action of firing a missile almost guarantees that the Soviets, using various ocean surveillance satellites and other anti-submarine technologies, will be able to pinpoint the location of the submarine. Once located submarines can be sunk relatively easily. Since a ballistic missile submarine can carry up to 24 missiles, each of which has 8 or 10 warheads, the planner who uses a submarine for a limited attack will in all probability compromise the ability of that submarine to be used in future



This Tomahawk cruise missile was launched more than 400 miles from the target building. It hit dead center. SIOP planners now ask, only half jokingly, "On which side of the street do you want the warhead to land?" (Department of Defense).

attacks. The attack will have cost him the potential of hitting hundreds of targets for the destruction of just a few.

Politically, using a U.S. strategic weapons system whether it be a ballistic missile submarine or an ICBM for a limited attack, even if it is an attack against a military target in a third country, could very possibly lead to an all out strategic exchange between the U.S. and the Soviets. While the type of weapon which destroys a target may not be of much relevance to the population within the target, it is of great relevance to SIOP planners who must insure that the choice



The MX missile in its silo. Each MX carries 10 highly accurate warheads which can be used to attack "hardened" targets (Department of Defense).

of a particular weapon does not, by itself, lead to an unintended escalation of the conflict.

All SIOPs since the very first have been based on the theory of controlled escalation. That is, that each level of escalation has definite starting and ending points, and most importantly, that between the end of one level and the beginning of the next there be a time period during which the two sides might agree to call a halt to the escalation process.

SIOP planners must structure the attack options of the SIOP so that the Soviets will recognize that the attack is not an all out spasm attack, but is a limited attack aimed at a specific objective. This means that planners must structure each SIOP attack option so that the Soviets can perceive a definite end to the attacks which are called for under that option. Further, the attacks must not create such a level of collateral damage that the nature of the attack itself is misperceived by the Soviets.

SIOP-6 — The current U.S. SIOP, known as SIOP-6 is a direct result of a process begun under President Carter and continued by President Reagan.

President Carter, when he assumed office, was ideologically opposed to a nuclear "war-fighting" doctrine. He favored retaining only as many nuclear weapons as were needed to serve as a deterrent against Soviet attack (at one point he thought that 200 nuclear weapons would be sufficient). However, by the time he left office that view had completely changed. Two factors brought about this remarkable change of mind, improving nuclear weapons technology and accuracy, and intelligence assessments that the Soviets were redesigning their forces and strategies to be able to fight a long-term nuclear conflict. So overwhelming were these factors that President Carter, in 1980, virtually reversed U.S. strategic doctrine with the issuance of a presidential directive known as PD-59.

PD-59 for the first time called on planners of the SIOP to design options which would allow the U.S. to fight a "protracted" nuclear war. PD-59 was only five pages long, but it outlined what eventually was to become this nation's current nuclear war fighting doctrine — SIOP-6.

SIOP-6 was approved during the first

years of the Reagan administration. Its planners were able to take advantage of a number of new strategic weapons systems, (the B-1, Trident, MX, and cruise missile), which began coming online soon after President Reagan took office.

SIOP-6 is more than a technical refinement of past SIOPs. It embodies an entirely new U.S. strategic doctrine for the conduct of a nuclear war. It is a plan aimed at not only militarily defeating the Soviets, but also at literally dismembering the Soviet empire, its institutions and leaders, and preventing the recovery of the Soviet system after the cessation of hostilities.

SIOP-6 established four entirely new categories of targets, called in the plan "selected options." Among them, the targeting of the leadership and infrastructure of the Communist Party. This includes the KGB, its leadership, and the regional, national, and local Communist Party headquarters and cadres. Also targeted are the 47 regional economic planning councils which together control the Soviet economy. These targets would be destroyed deliberately by highly accurate, relatively small warheads. Their destruction would not be left to chance as it was in earlier SIOPs which relied on the destruction of entire cities.

Another targeting option calls for literally "hunting down" the Soviet leadership by selectively attacking, one after the other, the hardened shelters in which they would take refuge and from which they would conduct military operations.

Still another selected option calls for strikes against Soviet and Warsaw Pact military forces in Eastern Europe. Such strikes would be designed to hit and destroy only military targets. The expectation by planners is that once the military can no longer enforce the will of the Communist governments in Eastern Europe the people of those countries will be able to take control of the governments.

The last selected option calls for targeting Soviet forces stationed on the Soviet-Chinese border. This would allow the Chinese to begin dismembering the Soviet empire from the south.

SIOP-6 also established a "strategic reserve force" which was described by a Pentagon spokesman as consisting of 1,000 nuclear armed sea launched cruise missiles, 2,000 submarine

launched warheads, and 500 nuclear weapons on board bombers dispersed throughout the U.S. These weapons would be "available for reconstruction and targeting. . . in the past-SIOP period," and would be "pivotal in the post war balance and struggle for recovery."

Conclusion — Technology dictates how wars are fought. The castle was a reaction to mounted warriors, the cannon a reaction to the castle. The invention of firearms neutralized the armored knight. The machine gun changed forever the tactics which infantry use on a battlefield. On and on it goes, technological innovation is applied and then countered through even more technological innovation.

Like it or not, despite the "doomie" view that nuclear weapons are inherently different, the cycle of technology-counter technology continues.

In examining the SIOP what stands out more than anything is that technology has forced a change in the way governments view nuclear war. It is now understood and accepted by both sides that a nuclear war, if it is ever fought, will occur over a protracted period of time, from weeks to months. Both governments have now geared their strategies and forces to be able to fight an extended nuclear conflict. Further, both sides have post-nuclear war recovery plans, as well as a reserve of nuclear weapons which will be deployed in a post-war environment.

To some, SIOP represents the ultimate deterrent. Having an equivalent nuclear war fighting ability with your enemy makes that enemy far less likely to engage in aggression.

To others, the existence of a war-

fighting SIOP is the equivalent of making "the unthinkable thinkable." That merely having the plans to fight a nuclear war makes a nuclear war that much more likely.

Two-thousand years ago the Romans had a saying — "If you would have peace, prepare for war." Good advice is good advice, even in the nuclear era. ●

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Ranger Training

(Continued from page 27)



ABOVE — Ambush was always a threat the Ranger class faced with each scenario.



RIGHT — Jiri Kratochvil gets a dose of mosquito repellent.

Eight men in camouflage clothing, wearing web gear and toting shotguns and paramilitary weapons quickly organize into a patrol for a rescue operation behind enemy lines. Assignments are made, equipment is gathered and soon the team is headed towards the coordinates given by Ripsaw Bravo.

The rescue team arrives to find the pilot alive but tangled in his harness. As the patrol leader sends in two men to extract the jet pilot, Soviet led guerrilla squads open fire. The rescue team immediately returns a barrage of gunfire, then sprints out of the area with the pilot to safety. After a few sporadic shots, the guerrillas fall back.

Five minutes later the rear man looks back to see a dusty black jeep flying down the road towards them. Everyone dives into the bushes on the right to quickly set up for an ambush against the jeep. As the jeep passes, another barrage of gun fire is triggered. The point man pumps two shotgun blasts at the bad guys while pushing the pilot deeper into the bush. The jeep is gone but there is no resting. The team is up again and jogging

through the brush, sweat pouring, ears buzzing and ringing from the gun blasts. No doubt the aggressors will be back.

This scenario was only one of many exciting missions our class participated in as part of the six day Ranger course put on by the United States Training Center (U.S.T.C.) led by William S. Ungerman, Jr. Instructors Tom Muzila, Frank Mott, and Bill Ungerman have an extensive background in the military and have graduated from many of the following military schools: Airborne, Ranger, Jungle Warfare, Pathfinder, Special Forces Light & Heavy Weapons, Desert Survival, Cold Weather Survival, Sniper, SCUBA, Visual Tracking, H.A.L.O. and Mountaineering.

U.S.T.C. has based their Ranger course on the actual US Army Ranger School, a 58 day training course that teaches already experienced soldiers how to survive deep in enemy territory as an elite fighting patrol. Rangers exist to go behind enemy lines, get hold of something that the enemy's got, and either blow it up or bring it back out for evaluation. It can be information

on terrain or troop movements, it can be a railroad bridge, or it might be a hostage held in an enemy camp.

Realism was enhanced during the course with the use of real weapons and blank ammunition. I had the use of a Remington 870 pump action shotgun with folding stock. Many other students used AR-15s and similar rifles. Each student had to provide his own personal gear: camo BDUs, load bearing equipment and camping gear. Corona, California, provided the perfect setting: wide open fields, bamboo thickets, a small river with semi-quick-sand, and woodlands crawling with ants and buzzing with mosquitoes.

The first two days of our Ranger course involved the learning of an important survival skill: map reading and compass navigation. Using the same maps used by the Army Ranger course, we learned how to plot azimuths, how to resection, and also how to use the Military Grid Reference System to give coordinates. Out in the field we ran two compass courses, one during the day and another at night. Night navigation was difficult but not impossible. We used two man teams, one man using the compass and the other to count off the pace. Corrections in azimuth headings were corrected every 100 meters with the compass man having the pace man move to the right or left to maintain a true heading.

One of the main objectives of the Ranger course is to teach patrol organization and leadership. Patrol leaders are graded by the instructors on how well they lead, plan, organize, and carry out the plan of action. Our class began with eight individuals with varying ages, backgrounds, and motivations for taking the course. By the end of the class we were to be a close-knit working unit, a patrol devoid of individual Rambo heroics, and working as a team with the spirit of camaraderie overcoming our exhaustion. Unfortunately that didn't happen in this year's course.

On the first night of tactical operations we traversed fields of bamboo and waded for what seemed like hours in waist deep water as we followed the river towards an outpost camp. Half of the team never recovered from this first operation. Debilitating blisters caused by wet socks and boots produced a lot of physical pain, and a few of the

guys let that pain totally disable them. A Ranger that can't run or even walk is not a contributing member of the team. Like a chain, we were only as strong as our weakest link.

By the fourth day we had a member of the team quit the class. The rest of us never really understood the reason why, but the cloud over our little group kept getting darker. Lack of sleep, continuous mental and physical exertion, and a wide disparity of personalities only made our efforts at cooperation seem more fleeting and desperate.

The remaining members of our class were: Gary L. Borton with Navy and SCUBA experience; Marquez W. Gibson of Long Barn, California; Jiri "George" Kratochvil who came to America from Czechoslovakia two years ago; Morey Benoun, 19, a construction worker from Santa Ana, CA; Scott Fly, a former Marine who flew in from New Mexico; Joseph Desloge, Jr., a retired geologist from Missouri; and myself, Scott Stoddard, ASG's associate editor.

Our patrol seemed plagued with problems. Lack of confidence in certain members as to their leadership abilities brought on attitudes of "we're doomed before we even begin so why try?" Many members of the team were serious in their attempt to follow the patrol leader and try to cooperate. Others refused to try. The Ranger class greatly dramatized the danger of not getting along in survival situations.

The lane-graders and instructors were very clear on what things we did right and what things we failed to do. The threat of stage fright was always present. During each mission the patrol leader could be changed at a moment's notice. "You are here to learn to lead, SO LEAD RANGER, LEAD." Most of the time you were put in as a patrol leader when the situation seemed to be the worst.

The critiques following each mission made me feel like I was on an emotional roller-coaster. Pep-talks and scathing rebukes kept me thinking and analyzing what I needed to do to help out the group and do better personally. Although we missed the mark in team unity, the lessons each of us learned on individual performance are just as relevant in our schooling and work today.

One of the most exciting scenarios

was played out at the very end of the course. We were briefed by intelligence that "Comaguan" forces had kidnapped the U.S. ambassador's daughter in a last ditch attempt to strike back at our friendly country of "El Salvo." We were to break up into small two to three man units to recon the area and find the guerrilla camp holding the hostage. When sufficient information was obtained, shots would be fired to call everyone back to base camp and then make plans to raid the camp and rescue the girl.

Of the three units that went out, two were able to make observations on the camp. The first unit unfortunately called the others back too soon, the first team obtaining insufficient intelligence but with the distinction of being the first!

We made plans anyway and decided to attempt another reconnaissance later that night in order to find the exact position of the girl. Leaving one man behind in our base camp with severe blisters and later another along the river to cross and set up diversionary fire, the remaining five of us crossed the river at midnight and proceeded to move towards the enemy camp, sticking close to the bamboo shadows and out of the moonlight. When we were about 500 meters away we hid ourselves in a bamboo thicket bordering the large field.

By now every rustle and shadow was a live breathing Spetsnaz soldier trying to kill us. We were on hyper-alert and our senses were playing tricks on us. The raid was to begin at 0500 and our team was still not sure where the girl was.

The second recon was still useless. When diversionary shots fired at 0500, the two patrol members assigned to bring out the girl were still trying to find her. By now rounds were blazing all around us — my shotgun blasting rounds wherever I sighted other flashes of light.

I plunged into another clump of bamboo and forced myself through the stalks into the blackness. Finally it got lighter and I could see an empty baby crib and a young woman seated near it waving her hands in an excited way. Finding that she was not tied up, I grabbed her arm and we ran outside past two "dead" guards — somebody was doing something right — and then

hightailed it back to our bamboo tunnel and exit to the river. With our five man unit together again we pushed towards the river through chest high stinging nettle, then stinking mud bogs and more bamboo. The river was farther than I thought.

When finally at the river bank, I took up a security position and watched each member of our team cross as a black silhouette, the moon low to the east. My eyes kept trying to tell me that enemy shapes were coming at us from upstream. We never did meet another enemy — our retreat was so swift. Staying off the road we escorted the ambassador's daughter safely back to camp. Only once we were back in camp, excited, exhilarated, wet, and out of breath did we realize our blunder. We had left our diversionary man at the designated rally point. "Oh, @#%#! We're going to get yelled at again..."

The Ranger course is a tough program and the price tag of \$600 only guaranteed each person the right to participate. Those who really put their heart and muscle into the program came out with a greater feeling of accomplishment and personal satisfaction. On the sixth day we received the certificate of completion and a gold Ranger patch but sleep was the most welcome reward. ●

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Harvesting Marine Life (Continued from page 55)

traps can be used too. More about that later. Anyway, if you try to catch lobster with your hands, keep your "claws" covered: although spiny lobster don't have pinchers, they are studded with sharp spines that will lacerate your hands.

An astute surface trapper, or diver may stake out a secret lobster haunt months ahead of time. One sure way to beat the competition is to tow a diver behind a boat (motor very slowly). Behind a boat you cover a great deal of lobster habitat in a short time. In California and Florida (especially off the coast of Ft. Lauderdale and Miami) there are coral reef fragments. In the early summer, these large flat "rocks" often have three or four lobsters under them. But the coral habitats are far and few between, so the boat towed diver (snorkeler) can cover more ground, and find more lobster.

Rocky areas around Santa Barbara, Point Conception, the Anacapa Island and Flat Rock near Palos Verdes in California are also productive. Santa Catalina Island should not be over-

ground may be pinned by a hand placed just behind the head.

Panulirus argus, the spiny lobster, is also found in the Caribbean. Like all lobsters, the "spiny" migrates en masse every fall. If you are fortunate to dive upon one of these migrations to deep water, you will boat your limit of 24 lobsters in a few minutes.

Remember, lobsters are nocturnal animals that feed and frolic at night. Be prepared to look for them after dark with a bright, waterproof light.

In Maine, only licensed residents may dive or trap lobsters. Other states and Canadian provinces have open seasons for non-residents.

Preparation is simple: drop a whole lobster in boiling water, cook for 10 to 12 minutes (depending on size), then eat the tail and claw meat plain or with lemon butter. Some folks like to eat the green fat in the body and suck out the brains... need I be more descriptive?

Shellfish — Scallops, abalone, mussels, geoducks and clams may be har-

vested from tide pools and tidal flats. Rock scallops attach to rock and other structure in dark areas away from direct sunlight. They are often well camouflaged and require careful observation. Break them off, carefully, from their sandstone or granite perch.

East Coast scallops are found in shallow to moderately deep water usually on a sandy bottom — often hidden in sea grass.

Preparation: scallops are bivalves and it is necessary to insert a knife between the shells, near the back hinge. Cut through the bivalve keeping the blade next to the inside surface of one half of the shellfish. In this way, you don't cut the scallop "button" in half. Once open, cut the muscle ("button") away from the other half of the shell.

Recipe: the meat may be stewed, fried or baked. One simple recipe requires you to place the scallop meat on the half shell. Combine chives, tarragon, soy sauce (two tablespoons to every dozen scallops), a sprinkle of garlic, then fold all into melted butter. Next, spoon the warm butter mixture over scallops, then pop all into the hot



Lobsters are good tasting but difficult to extricate from rocky crevices where they hide.



Three shellfish mainstays of the tidal zone: oysters, cherrystone clams and mussels.

looked. Also, there are productive areas south of the border in Baja, Mexico.

Anyway, lobsters prefer rocks, and can cram their bulky body into the thinnest crevice. A lobster wedged in a crevice will take some deliberate effort to extract. You may use bait to lure them out. Others reach in with their covered hand, grab the beast, twist, turn and hope for the best. Try to grab the arthropod by the base of the antennae horns (antennae tips will break off) or the bulk of the back... or grapple the entire head. Sometimes a broom handle is useful for prying loose these stubborn marine crawfish; but hooks, spears, and other mechanical devices are illegal.

A "bug" scampering across open

vested from tide pools and tidal flats. Be certain to follow seasonal restrictions. Generally speaking, shellfish may be safely eaten in the cold months that have an "r" in them — avoid May, June, July and August unless you are certain the bivalves are not contaminated with toxic phytoplankton.

Scallops may be found in plankton rich bays and other areas that are washed by large, frequent (four times a day) tides. Most states have a size limit and catch limit on scallops — check local restrictions. Usually scallop season is during the cold months and is most productive in northern latitudes off the coasts of Washington and Maine. Wear a thick wet suit or dry suit to fend off hypothermia.

broiler for about five or six minutes. Garnish with parsley, pucker with lemon juice and serve.

Abalone may be found attached to rocks and crevices near the bottom. They are well camouflaged and hard to see. Look for abnormal bumps on the rocks, especially in difficult to reach crevices. Most productive huntings should concentrate on rocks or reefs where wave action and current bring in nutrients. Kelp beds are often productive.

To catch an abalone requires stealth. Sneak up to the animal before it can clamp down on the rock. Stick your prying tool ("an iron") between the rock and the shell and pry sharply — pop goes the abalone. But if you startle the mollusk, or are too slow with the

poke and pry, be prepared to spend much energy and effort to free a determined abalone, unwilling to leave its rocky hideaway.

On the West Coast abalones come in colors: whites, reds, greens, pinks and blacks. Blacks are found in shallow water tidal pools, and are tough and least desirable. Large Whites, the most tender, are found near the outer fringe of tidal areas to depths of 100 feet or more.

At \$30 a pound, diving for abalone saves you money and provides cheap fun with few restrictions.

Preparation: trim all viscera away from the meat, until you have only the light colored meaty foot. This may be sliced and pounded with a meat tenderizer. Eat the flesh raw or let it cool in the refrigerator for a day. Then, fry the pieces like steak.

Mincing and stewing in chowder is recommended. Many recipes may be discovered in an old stack of *BON APPETITE* magazines.

Mussels are a dominant species in the tidal zone. These animals attach to structure with stringy byssal threads. They may be eaten raw or cooked.

Preparation: wash a dozen mussels — use a scrub brush to get them clean. Steam them open. Mix the meats with chopped shallots, and stir fry in butter. For a flavor boost, press in a clove of garlic juice. Spoon the mussels back into their shells, pour over the remaining shallot butter, and zap all in the microwave for about a minute. Serve hot with a dash of lemon juice and/or Tabasco sauce.

Other edible mollusks found in tidal pools and mud flats include: mud clams, little necks, cherrystones and oysters. They may be harvested with a clam rake at low tide. Place the bivalves in a plastic bucket, or clam basket. Avoid collecting clams in polluted bays, or areas washed by the effluent of polluted rivers and streams. Eat these shellfish raw or prepare them like mussels.

It's obvious, should unforeseen events ravage the terrestrial marketplace, tidal areas provide an impressive grocery list for survival. The ocean is ripe with food in any season: seaweed, octopus, sea urchins, crabs, lobster, clams, fish and more. With some basic knowledge your survival posture is never bent out of shape... so continue learning how to harvest our wet places. ●

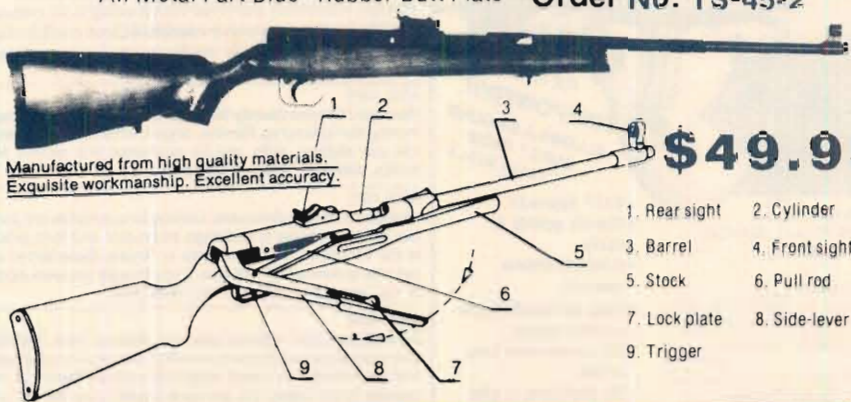
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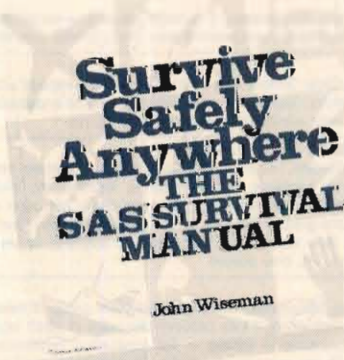
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SURVIVALIST DIRECTORY

THIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. *American Survival Guide* will accept properly coded mail and forward it to the coded addresses without charge. *American Survival Guide* accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 1200

Houston / Grimes County Texas area. Survival/defense group forming from ground up. Families, singles, females, teens invited. List your degrees, skills, and life experience in a resume. No racists, satanists, Walter Mittys needed.

ASG 1201

Vancouver, British Columbia. Looking for survivalists and serious outdoors people to exchange information and form group in the Vancouver, B.C. area. Male or female. Experienced or just new to survival, all welcome. If you thought you were alone in the Vancouver area—not so—write soon.

ASG 1202

South Texas, San Antonio area. The National State Defense Force Association would like to hear from groups and individuals that are interested in a valid organization whose interest is the defense of the nation. We are not a private army. We are not a mercenary training group. Anti-americans, neo-Nazis and K.K.K. members need not write.

ASG 1203

Muketo, Washington. Middle aged man looking for a survival group to join. Interested in helping build up facilities or possibly staffing one already constructed. Also interested in exchanging information.

ASG 1204

Mt. Airy, North Carolina. A survivalist team based in the north-western part of NC is looking for correspondence with other like minded individuals or other such teams in the U.S. We are also looking for members to join our team. Write for more details.

ASG 1205

Spanaway, Washington. Survivalist seeking to start survival group or network in the Seattle/Olympia area. Couples, singles, women with dependents welcome. Experience not necessary. Must be willing to train. Need medical personnel/instructors. Only committed people need apply. Will correspond with other survivalists nationwide. No racists, neo-nazis, communists, rambos or kooks.

ASG 1206

Western Iowa. Am forming a survival group and would like to here from interested people in this area. Male, female, couples.

ASG 1207

Cleveland, Ohio. Serious survivalist wishes to correspond and meet with others interested in same. All letters will be answered. Please... only intelligent, serious-minded adults.

ASG 1208

Northeast Florida. Large group looking for new members. We have standard weapons, communications, first aid, etc. Well organized, well equipped group. We train often, not once a year like some groups. We have an outing every month. Don't waste your time with groups that don't do anything or very little. FL, GA, AL only please.

ASG 1209

Park Rapids, Minnesota. Starting a survivalist group. If there are any serious minded kids between the ages of 10-17 who would be interested in joining — No experience necessary. Will train with me and my associates. All responses must be sent with picture and some if any background. Because of age I understand no background. Might I add that all races, sexes, religions, and creeds will be considered.

ASG 1210

Sylva/Jackson County, North Carolina. Husband and wife survival team wish to meet and correspond with other survivalists in Western North Carolina. We wish to exchange ideas and information based on experience as well as book learning. Concerning shelter construction, food and water storage, security, and establish contacts for surviving the hard times with anyone nationwide as well as local. Self-sufficiency is a goal. Discretion and confidentiality are a must. Only those interested in true survival need respond. No extremists, freeloaders, etc.

ASG 1211

Flagstaff, Arizona. Serious survivalist interested in meeting others with same ideals, to form and/or join a survivalist group in central Arizona. Trained in weapons, communications and medical field.

ASG 1212

Eldorado, Illinois. Midwestern survival group expanding and talking in serious persons or families for membership. Accept all loyal and lawful people regardless of race, religion, age, handicap or income bracket.

ASG 1213

Grand Rapids, Michigan. Family of three looking to contact other serious survivalists. Want to organize group or join existing one. Husband has spent 12 years active duty in USMC. Disasters are better survived by combining resources. The time to act is now.

ASG 1214

Lincoln, California. Looking to network with organizations, groups, couples and individuals. Hoping to open dialogue on many levels, from site locations, equipage, etc. to alternative lifestyles and communities.

ASG 1215

New Brunswick, Canada. Would like to correspond with people in surrounding provinces and states or possibly start a group throughout Canada, U.S., and Australia. People under 20 years of age, please. All letters answered.

ASG 1216

United States. Professional men with backgrounds in education, finance and military subjects, are considering the formation of a survivalist organization. Membership will be open to everyone, regardless of age, sex, race, occupation, or beliefs. All activities, records, and memberships will remain strictly confidential at all times. The overall objective of this organization is to provide safety and security for our families and loved ones later.

ASG 1217

Deerfield, Florida. 21 yr. old ex-82nd Airborne (recon) striving for further knowledge in training and special crafts. Looking for merc school, or someone very qualified.

ASG 1218

Jackson, North Carolina. White male, SOG Nam Vet, 2 tours, late 30's, seeks female partner and stable couples who are survivalists seeking independence and form own retreat, educate own children, etc. Wanting to establish autonomous survival network of rational individuals with survival/retreat intentions. Will train right female and couples for any situation.

ASG 1219

Centerville, Tennessee. Survivalist wishes to correspond with survivalist in Tennessee to exchange ideas or start survival group. Serious survivalist need only to respond.

ASG 1220

Western Utah. Seeking diverse individuals to join our Practical Survival Village in the mountains. Basic survival skills preferred but not necessary. Residents pursue self-sufficient lifestyle with appropriate technology. Would also like to exchange resource and communication information. PSV applicants please reply within 90 days of publication with brief resume of skills and interests. Include SASE for more information.

ASG 1221

Ocala National Forest, Florida. Homestead type group. Males, females, couples and families. No dues. All letters answered.

ASG 1222

Central Pennsylvania. Ex-army MP, ex-police, low profile, experienced with firearms, outdoors, tactics, would like to join or form group.

ASG 1223

Stuttgart, Arkansas. Young male (26) wishes to correspond with individuals of like mind from all areas. Interested in nuclear & wilderness survival. Would like to exchange info/ideas.

ASG 1224

Dearborn, Michigan. I'm a 15-year old male who wishes to correspond with others (of any age, any sex) about all things concerned with long and short term survival. I am thinking of forming a survival organization if I get enough replies. Please state any field you may specialize in (i.e., medical, weapons, wilderness survival, etc.). No Rambos, racists, druggies, or kooks, please.

ASG 1225

North, East Arkansas. Survivalist group is looking for people with survival experience. If you are looking to become a member of a survivalist group, write for more information. All ages welcome, male or female.

ASG 1226

Erle, Pennsylvania. Pennsylvania man (45) has Canadian land contract to homestead. Partner or partners needed. Serious inquiries only. Send resume. Stay free! No commies, gays, nuts, druggies or sissies.

ASG 1227

Kansas City, Kansas. Jesuit-educated, politically reactionary, self-employed, apostate but straight survivalist, 26, wishes contact with gung-ho persons of good moral character willing to help combat leftist media bias and prevent takeover of U.S. govt. by Ted Kennedy's collectivist friends. Also interested in defecting to South Africa if our efforts fail. All ages, races, sexes welcome.

ASG 1228

United States. Survivalist group starting, wanting to be this countries largest survivalist organization. Members (male and female) 18 and over please. No anti-americans.

ASG 1229

Four Corners Area, (AZ, CO, NM, UT) Seeking other like minded people to buy survival supplies as a group to get best prices/also for support unit (i.e., "Barn Raisings" and other group efforts). All ages welcomed. (Young Bucks to Seasoned Vets).

ASG 1230

Vancouver, British Columbia. Survivalist organization wishing to expand its membership and seek contact with other survival organizations in the B.C. and Pacific Northwest. We accept all ages male and female, novice and experienced. Knowledge and friends is our key to survival so write now!

ASG 1231

Manila, Philippines. Looking to share ideas with highly individualistic survivalists worldwide whose only political belief is looking out for #1. No racists, sexists, Rambos, macho-trippers, extremists, wimps and psychos; we've got enough of those down here.

ASG 1232

Southwest Pennsylvania. Survivalist wishing to hear from other survivalists to exchange ideas and possibly form a group, one that will work as a team and prepare to survive whatever tomorrow should happen to bring. Serious inquiries only, no kooks, commies, liberals, etc.

ASG 1233

Burke, Virginia. A new group of American Freedom Fighters are looking for members on the east coast and especially in North Virginia. Members will be informed of an annual summer meeting for all members. Ages 15-25. Male or female. No commies.

ASG 1234

Miami—Dade County, Florida. Christian oriented individual would like to meet with others of like mind, for the development of outdoor survival skills.

ASG 1235

Chula Vista, California. Vietnam Vet, 40, single but enjoys family-type friendships/relationships, wishes to join small, serious-minded survival group anywhere in the U.S. or Canada. Have good knowledge of woodlore, poaching, etc. Have own weapons, communications gear, and other basic necessities. I'm no Rambo, no closet commie or other radical. Will give phone number to serious people who wish more personal info.

ASG 1236

Institute, West Virginia. Teen paramilitary/survival group are opening its membership to all of West Virginia/Southern Ohio. Novice and experts, all races, female and male encouraged to join. Ages 15 and up. Racists, Rambos and nut cases need not apply.

ASG 1237

North Florida/Southern Georgia. Phoenix survival group seeking contact with other groups and individuals in our area to share information and ideas. Possibility of forming a nationwide group. No gays, commies, Rambos or druggies welcome.

ASG 1238

Kista, Sweden. Swedish female wishes to get in touch with U.S. survivalists to get information and ideas.

ASG 1239

Plymouth, Wisconsin. Would like to contact anyone interested in survival or military. Small group looking for experienced persons to share ideas. Instructors especially needed. All future military personnel in group and in need of training. No gays, druggies, or nuts.

ASG 1240

Belle, West Virginia. Seeking ex-special forces veteran, and ex-airborne veteran, single from Ohio or West Virginia area. Wanting to form survival group and learn about combat weapons, self-defense, shooting skills, and tactics.

ASG 1241

Calgary, Alberta, Canada. 29 year old caucasian male survivalist into hunting, fishing, backpacking and shooting; with military/technical background—in excellent health seeks healthy female partner 21 to 30 for lasting commitment/marriage as a survivalist retreat couple. Must be a non-smoker, no drugs, with conservative Christian morals and values. Any race welcome.

ASG 1242

Waupun, Wisconsin. Nam Vet seeking correspondence with female survivalist with heart and fighting spirit.

ASG 1243

Northeast Ohio. I am interested in joining or starting a survival group in the area. Will reply to all serious persons only.

ASG 1244

Northwest Middle Tennessee. Family of five is looking to contact other families in the area to exchange ideas and possibly join or form a survival group. Husband is ex-military and multi-talented. We are not Rambos. Only intelligent, sincere, civilized, Americans need respond.

Address response letter as follows:

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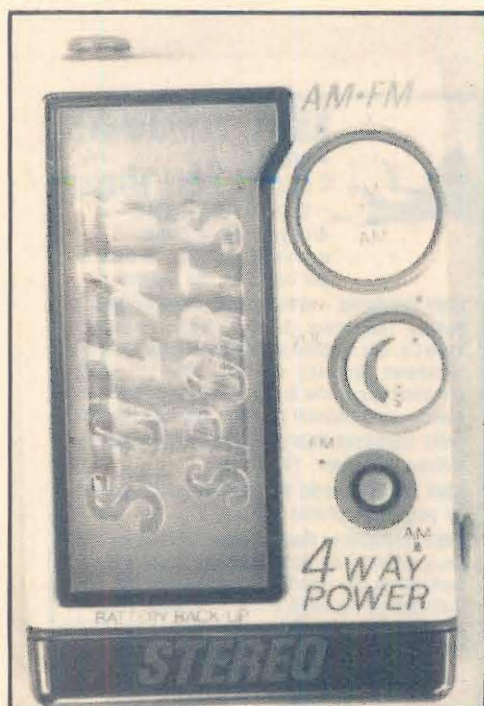
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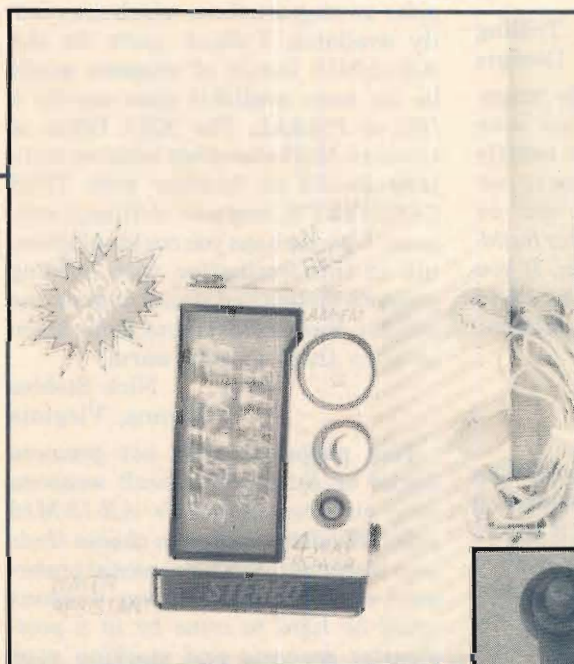
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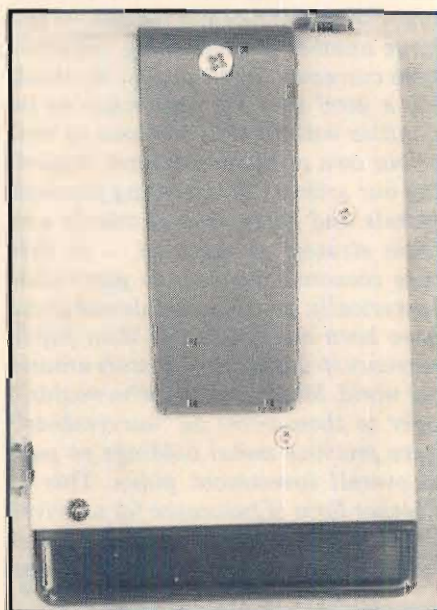
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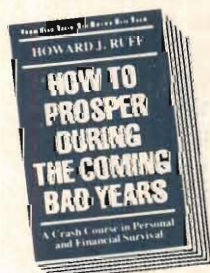
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Building a Snow Cave

Crawl into your warm, silent fortress of snow and ice and leave the howling chill of killer winds outside. . .

By Scott Stoddard

When the last leaves of fall fly before a gray north wind and the sun's low angle barely breaks the morning chill, one can be sure that winter is on its way.

In the high country especially, a bright sunny day can suddenly turn colorless, with enveloping grey clouds packing huge snowflakes. At high elevations the wind often gusts at over 60 miles per hour, turning the falling snow into needling ice crystals that blast against any bare skin not protected by gloves or parka.

Snow is your enemy. It can disorient you in white-out conditions, cause you to become wet and lose precious body heat, and with overwhelming power it can mow you down in a thunderous avalanche.

Snow is also your friend. The shelter it provides can save your life and provide you with a cozy warm burrow. A snow bank is nothing more than a honeycomb of air and frozen ice, and trapped dead air is the best insulator from cold. Animals know this instinctively: foxes, wolves, coyotes and ptarmigans burrow into snowbanks when the weather gets rough.

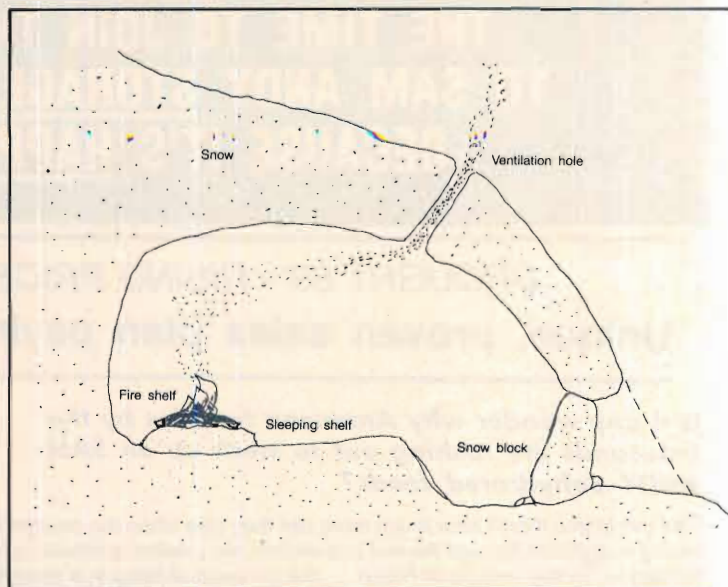
Digging a comfortable snow cave is easy. Just bend down and start digging. The architect in you will want to get fancy, so keep your first room simple. Later you can add passage ways to other rooms and cubby holes. What's nice about snow caves is that no matter how extravagant you get, the thaw

will erase your work and the land remains undamaged.

To build a suitable snow cave you need three things: an adequate amount of snow, sufficient time for digging, and waterproof clothing. On a recent cross-country ski trip we were camped in only three feet of snow. To generate a mound of snow large enough to burrow into, we dug away snow that covered a picnic table and piled the snow in a large mound over five feet high. Fresh powder snow is too light and dry to use for a snow cave. Stacking the snow up in a mound will cause it to compress and settle into a harder mass.

Digging time will vary according to the complexity of your cave. A one room shelter will take at least two hours to complete. A complex mansion of bedrooms, dining halls, connecting tunnels and secret passage ways might take you all day. Digging a snow cave is wet work, and rain pants, chaps, or ponchos will help you stay dry. Mittens or gloves are a must.

As for tools to dig with, mountain shops stock light weight snow shovels with collapsing handles that weigh less than two pounds. In a fix other implements can be used such as skis, snowshoes, cooking pots, hub caps, or even your hands. A poncho or ground cloth helps to haul snow out once your tunnel or room starts taking shape. Because cooler air sinks to the ground,



A snow block is used to close the entrance of the snow cave.

make the entrance tunnel rise a bit so cold air flows away from you. Sleeping areas can be carved in the side of the wall a few feet higher than the floor to take advantage of this principle.

Many people are afraid of a collapsing roof. In well compacted snow you'll need only about one foot of snow for a strong roof overhead. In less consolidated snow, plan on at least two feet. Always be sure to poke an air vent through the ceiling with a ski pole once you have finished digging. An air vent is also advisable directly above your stove/kitchen area. If it is snowing outside be sure to clear the vent hole every once in a while.

Once the digging and excavation is completed you can move in with your belongings. Groundcloths and foam pads will help you stay warm and dry as you enjoy your new home. The walls of your snow cave not only insulate you from the outside temperatures but also block out all sound from outside. Other than the rustling of your own clothes, there are no other sounds. The snow walls will also save on your lighting bill. A single candle will brilliantly illuminate the room like a powerful lantern.

Although a snow cave is not always warmer than a tent, it offers superior protection from the ravages of wind. A tent will rustle and rip to pieces in a severe gale while the snow cave quietly keeps you protected in its womb-like enclosure. Many skiers, snowshoers and more than a few stranded motorists owe their lives to an improvised snow shelter. Digging a practice cave may some day become an investment in experience for the times when winter gets rough and the snow is flying. ●



ABOVE — A base camp near Rock Creek in the Sierra Nevada Mountains provided enough snow to construct a practice snow cave.

RIGHT — Snow was removed from this buried picnic table and piled in a mound over five feet high.



BELOW — The following morning we tested the roof by jumping up and down on it. It was firm as cement.



Building a Snow Cave



A single candle illuminates the snow cave quite brightly.



We cut a window to check the thickness of the wall and roof. It was a good 12 inches thick.

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